KASPERSKY LAB

Kaspersky® Anti-Virus 6.0 SOS

USER GUIDE

KASPERSKY ANTI-VIRUS 6.0 SOS

User Guide

© Kaspersky Lab
http://www.kaspersky.com

Revision date: July 2007

Table of Contents

CHAPTER 1. THREATS TO COMPUTER SECURITY 8
1.1. Sources of Threats 8
1.2. How threats spread 9
1.3. Types of Threats 10
1.4. Signs of Infection 13
1.5. What to do if you suspect infection 14
1.6. Preventing Infection 15

CHAPTER 2. KASPERSKY ANTI-VIRUS 6.0 SOS 17
2.1. What's new in Kaspersky Anti-Virus 6.0 SOS 17
2.2. Components of Kaspersky Anti-Virus 6.0 SOS 18
2.2.1. Virus scan tasks 19
2.2.2. Program tools 19
2.3. Hardware and software system requirements 20
2.4. Software packages 21
2.5. Support for registered users 22

CHAPTER 3. INSTALLING KASPERSKY ANTI-VIRUS 6.0 SOS 24
3.1. Installation procedure using the Installation Wizard 25
3.2. Setup Wizard 28
3.2.1. Activating the program 28
3.2.1.1. Selecting a program activation method 29
3.2.1.2. Entering the activation code 29
3.2.1.3. Obtaining a key file 30
3.2.1.4. Selecting a license key file 30
3.2.1.5. Completing program activation 30
3.2.2. Configuring update settings 31
3.2.3. Configuring a virus scan schedule 31
3.2.4. Restricting program access 32
3.2.5. Finishing the Setup Wizard 32
3.3. Installing the program from the command prompt 33
3.4. Procedure for installing the Group Policy Object 33

3.4.1. Installing the program 33
3.4.2. Upgrading the program 34
3.4.3. Uninstalling the program 35
3.5. Upgrading from 5.0 to 6.0 35

CHAPTER 4. PROGRAM INTERFACE 36
4.1. System tray icon 36
4.2. The context menu 37
4.3. Main program window 38
4.4. Program settings window 40

CHAPTER 5. GETTING STARTED 41
5.1. How to scan your computer for viruses 41
5.2. How to scan critical areas of the computer 42
5.3. How to scan a file, folder or disk for viruses 42
5.4. How to update the program 43

CHAPTER 6. APPLICATION MANAGEMENT 45
6.1. Disabling/ Enabling Application 45
6.2. Types of malicious programs to be monitored 45
6.3. Creating a trusted zone 46
6.4. Starting tasks under another profile 51
6.5. Configuring Scheduled Tasks and Notifications 53
6.6. Power options 54

CHAPTER 7. SCANNING FOR VIRUSES ON THE COMPUTER 56
7.1. Managing virus scan tasks 57
7.2. Creating a list of objects to scan 57
7.3. Creating virus scan tasks 59
7.4. Configuring virus scan tasks 60
7.4.1. Selecting a security level 60
7.4.2. Specifying the types of objects to scan 61
7.4.3. Restoring default scan settings 64
7.4.4. Selecting actions for objects 64
7.4.5. Additional virus scan settings 67
7.4.6. Setting up global scan settings for all tasks 68

CHAPTER 8. TESTING KASPERSKY ANTI-VIRUS 6.0 SOS FEATURES 70

8.1. The EICAR test virus and its variations 70
8.2. Testing Virus scan tasks 72

CHAPTER 9. PROGRAM UPDATES 74
9.1. Starting the Updater 75
9.2. Rolling back to the previous update 76
9.3. Creating update tasks 76
9.4. Configuring update settings 77
9.4.1. Selecting an update source 78
9.4.2. Selecting an update method and what to update 80
9.4.3. Configuring connection settings 82
9.4.4. Update distribution 83
9.4.5. Actions after updating the program 85

CHAPTER 10. ADVANCED OPTIONS 86
10.1. Quarantine for potentially infected objects 87
10.1.1. Actions with quarantined objects 88
10.1.2. Setting up Quarantine 90
10.2. Backup copies of dangerous objects 91
10.2.1. Actions with backup copies 91
10.2.2. Configuring Backup settings 93
10.3. Reports 93
10.3.1. Configuring report settings 95
10.3.2. The *Detected* tab 96
10.3.3. The *Events* tab 97
10.3.4. The Statistics tab 98
10.3.5. The Settings tab 98
10.4. General information about the program 99
10.5. Managing licenses 100
10.6. Technical Support 102
10.7. Configuring the Kaspersky Anti-Virus 6.0 SOS interface 103
10.8. Notification of Kaspersky Anti-Virus 6.0 SOS Events 105
10.8.1.1. Types of events and notification delivery methods 106
10.8.1.2. Configuring email notification 108
10.8.1.3. Configuring event log settings 109
10.8.2. Restricting Application Access 110
10.9. Importing and exporting Kaspersky Anti-Virus 6.0 SOS settings 111

10.10. Resetting to default settings ... 112

CHAPTER 11. WORKING WITH THE PROGRAM FROM THE COMMAND PROMPT ... 113
11.1. Activating the application ... 114
11.2. Managing Tasks ... 115
11.3. Anti-virus scans ... 117
11.4. Program updates ... 120
11.5. Rollback settings ... 121
11.6. Exporting settings ... 122
11.7. Importing settings ... 123
11.8. Starting the program ... 123
11.9. Stopping the program ... 123
11.10. Obtaining a Trace File ... 124
11.11. Viewing Help ... 124
11.12. Return codes from the command line interface ... 125

CHAPTER 12. MODIFYING, REPAIRING, AND REMOVING THE PROGRAM ... 126
12.1. Modifying, repairing, and removing the program using Installation Wizard ... 126
12.2. Uninstalling the program from the command prompt ... 128

CHAPTER 13. ADMINISTERING THE PROGRAM WITH KASPERSKY ADMINISTRATION KIT ... 129
13.1. Administering the application ... 132
13.1.1. Starting/stopping the application ... 133
13.1.2. Configuring application settings ... 134
13.1.3. Configuring specific settings ... 136
13.2. Managing tasks ... 137
13.2.1. Starting and stopping tasks ... 138
13.2.2. Creating tasks ... 139
13.2.2.1. Creating local tasks ... 139
13.2.2.2. Creating group tasks ... 141
13.2.2.3. Creating global tasks ... 141
13.2.3. Configuring specific task settings ... 142
13.3. Managing policies ... 143
13.3.1. Creating policies ... 143
13.3.2. Viewing and editing policy settings ... 145

CHAPTER 14. FREQUENTLY ASKED QUESTIONS 147

APPENDIX A. REFERENCE INFORMATION 149
A.1. List of files scanned by extension 149
A.2. Valid file exclusion masks 151
A.3. Valid threat exclusion masks 152
A.4. Overview of settings in setup.ini 153

APPENDIX B. KASPERSKY LAB 154
B.1. Other Kaspersky Lab Products 155
B.2. Contact Us 165

APPENDIX C. LICENSE AGREEMENT 166

CHAPTER 1. THREATS TO COMPUTER SECURITY

As information technology has rapidly developed and penetrated many aspects of human existence, so the number and range of crimes aimed at breaching information security has grown.

Cyber criminals have shown great interest in the activities of both state structures and commercial enterprises. They attempt to steal or disclose confidential information, which damages business reputations, disrupts business continuity, and may impair an organization's information resources. These acts can do extensive damage to assets, both tangible and intangible.

It is not only big companies who are at risk; individual users can also be attacked. Criminals can gain access to personal data (for instance, bank account and credit card numbers and passwords), or cause a computer to malfunction. Some types of attacks can give hackers complete access to a computer, which can then be used as part of a “zombie network” of infected computers to attack servers, send out spam, harvest confidential information, and spread new viruses and Trojans.

In today’s world, it is widely acknowledged that information is a valuable asset that should be protected. At the same time, information must be accessible to those who legitimately require it (for instance, employees, clients and partners of a business). Hence, the need to create a comprehensive information security system, which must take account of all possible sources of threats, whether human, man-made, or natural disasters, and use a complete array of defensive measures, at the physical, administrative and software levels.

1.1. Sources of Threats

A person, a group of people, or phenomena unrelated to human activity can threaten information security. Following from this, all threat sources can be put into one of three groups:

- **The human factor**. This group of threats concerns the actions of people with authorized or unauthorized access to information. Threats in this group can be divided into:
    - *External*, including cyber criminals, hackers, internet scams, unprincipled partners, and criminal organisations.

- *Internal*, including the actions of company staff and users of home PCs. Actions taken by this group could be deliberate or accidental.

- **The technological factor**. This threat group is connected with technical problems – use of obsolete or poor-quality software and hardware to process information. This can lead to equipment failure and often to data loss.

- **The natural-disaster factor**. This threat group includes the whole range of events caused by nature and independent of human activity.

All three threat sources must be accounted for when developing a data security protection system. This User Guide focuses on the area that is directly tied to Kaspersky Lab's expertise – external threats involving human activity.

1.2. How threats spread

As modern computer technology and communications tools develop, hackers have more opportunities for spreading threats. Let's take a closer look at them:

The Internet

The Internet is unique, since it is no one's property and has no geographical borders. In many ways, this has promoted the development of web resources and the exchange of information. Today, anyone can access data on the Internet or create their own webpage.

However, these very features of the worldwide web give hackers the ability to commit crimes on the Internet, and make the hackers difficult to detect and punish.

Hackers place viruses and other malicious programs on Internet sites and disguise them as useful freeware. Furthermore, scripts that run automatically when you open certain webpages can execute dangerous actions on your computer, including modifying the system registry, stealing personal data, and installing malicious software.

By using network technologies, hackers can attack remote PCs and company servers. These attacks can cause parts of your system to malfunction, or could provide hackers with complete access to your system and thereby to the information stored on it. They can also use it as part of a zombie network.

Lastly, since it became possible to use credit cards and e-money through the Internet in online stores, auctions, and bank homepages, online scams have become increasingly common.

Intranet

Your intranet is your internal network, specially designed for handling information within a company or a home network. An intranet is a unified space for storing, exchanging, and accessing information for all the computers on the network. This means that if one computer on the network is infected, the others are at great risk of infection. To avoid such situations, both the network perimeter and each individual computer must be protected.

Email

Since the overwhelming majority of computers have email client programs installed, and since malicious programs exploit the contents of electronic address books, conditions are usually right for spreading malicious programs. The user of an infected computer might unknowingly send infected emails to friends or coworkers who in turn send more infected emails. For example, it is common for infected file documents to go undetected when distributed with business information via a company's internal email system. When this occurs, more than a handful of people are infected. It might be hundreds or thousands of company workers, together with potentially tens of thousands of subscribers.

Beyond the threat of malicious programs lies the problem of electronic junk email, or spam. Although not a direct threat to a computer, spam increases the load on email servers, eats up bandwidth, clogs up the user's mailbox, and wastes working hours, thereby incurring financial harm.

In addition, hackers have begun using mass mailing programs and social engineering methods to convince users to open emails, or click on a link to certain websites. It follows that spam filtration capabilities are valuable for several purposes: to stop junk email; to counteract new types of online scans, such as phishing; to stop the spread of malicious programs.

Removable storage media

Removable media (floppies, CD-ROMs, and USB flash drives) are widely used for storing and transmitting information.

Opening a file that contains malicious code and is stored on a removable storage device can damage data stored on the local computer and spread the virus to the computer's other drives or other computers on the network.

1.3. Types of Threats

There are a vast number of threats to computer security today. This section will review the threats that are blocked by Kaspersky Anti-Virus 6.0 SOS.

Worms

This category of malicious programs spreads itself largely by exploiting vulnerabilities in computer operating systems. The class was named for the way that worms crawl from computer to computer, using networks and email. This feature allows worms to spread themselves very rapidly.

When a worm penetrates a computer, it scans for the network addresses of other computers that are locally accessible, and sends a burst of self-made copies to these addresses. In addition, worms often utilize data from email client address books. Some of these malicious programs occasionally create working files on system disks, but they can run without any system resources except RAM.

Viruses

Viruses are programs that infect other files, adding their own code to them to gain control of the infected files when they are opened. This simple definition explains the fundamental action performed by a virus – *infection*.

Trojans

Trojans are programs that carry out unauthorized actions on computers, such as deleting information on drives, making the system hang, stealing confidential information, and so on. This class of malicious program is not a virus in the traditional sense of the word, because it does not infect other computers or data. Trojans cannot break into computers on their own. They are spread by hackers, who disguise them as regular software. The damage that they inflict can greatly exceed that done by traditional virus attacks.

Recently, worms have been the commonest type of malicious program damaging computer data, followed by viruses and Trojans. Some malicious programs combine features of two or even three of these classes.

Adware

Adware comprises programs that are included in software, unknown to the user, which is designed to display advertisements. Adware is usually built into software that is distributed free. The advertisement is situated in the program interface. These programs also frequently collect personal data on the user and send it back to their developer, change browser settings (start page and search pages, security levels, etc.) and create traffic that the user cannot control. This can lead to a security breach and to direct financial losses.

Spyware

This software collects information about a particular user or organization without their knowledge. Spyware often escapes detection entirely. In general, the goal of spyware is to:

- Trace user actions on a computer;
- Gather information on the contents of your hard drive; in such cases, this usually involves scanning several directories and the system registry to compile a list of software installed on the computer;
- Gather information on the quality of the connection, bandwidth, modem speed, etc.

Riskware

Riskware includes software that has not malicious features but could form part of the development environment for malicious programs or could be used by hackers as auxiliary components for malicious programs. This program category includes programs with backdoors and vulnerabilities, as well as some remote administration utilities, keyboard layout togglers, IRC clients, FTP servers, and all-purpose utilities for stopping processes or hiding their operation.

Another type of malicious program that is similar to adware, spyware, and riskware are programs that plug into your web browser and redirect traffic. The web browser will open different web sites than those intended.

Jokes

Joke software does not do any direct damage, but displays messages stating that damage has already been done or will be under certain conditions. These programs often warn the user of non-existent dangers, such as messages that warn of formatting the hard drive (although no formatting actually takes place) or detecting viruses in uninfected files.

Rootkits

These are utilities that are used to conceal malicious activity. They mask malicious programs to keep anti-virus programs from detecting them. Rootkits modify basic functions of the computer's operating system to hide both their own existence and actions that the hacker undertakes on the infected computer.

Other dangerous programs

These are programs created to, for instance, set up denial of service (DoS) attacks on remote servers, hack into other computers, and programs that are part of the development environment for malicious programs. These programs include hack tools, virus builders, vulnerability

scanners, password-cracking programs, and other types of programs for cracking network resources or penetrating a system.

Kaspersky Anti-Virus 6.0 SOS detects and blocks these threat types reactively, i. e. malicious objects are detected using a threat signature database that is regularly updated. At least one virus infection is necessary to implement this method – in order to add threat signature to the database and distribute database update.

Warning:

From this point forward, we will use the term "virus" to refer to malicious and dangerous programs. The type of malicious programs will only be emphasized where necessary.

1.4. Signs of Infection

There are a number of signs that a computer is infected. The following events are good indicators that a computer is infected with a virus:

- Unexpected messages or images appear on the screen, or unusual sounds are played;
- The CD/DVD-ROM tray opens and closes unexpectedly;
- The computer arbitrarily launches a program without your assistance;
- Warnings pop up on the screen about a program attempting to access the Internet, even though you initiated no such action;

There are also several typical traits of a virus infection through email:

- Friends or acquaintances tell you about messages from you that you never sent;
- Your inbox houses a large number of messages without return addresses or headers.

It must be noted that these signs can arise from causes other than viruses. For example, in the case of email, infected messages can be sent with your return address but not from your computer.

There are also indirect indications that your computer is infected:

- Your computer freezes or crashes frequently;
- Your computer loads programs slowly;
- You cannot boot up the operating system;
- Files and folders disappear or their contents are distorted;

- The hard drive is frequently accessed (the light blinks);
- The web browser program (e.g., Microsoft Internet Explorer) freezes or behaves unexpectedly (for example, you cannot close the program window).

In 90% of cases, these indirect systems are caused by malfunctions in hardware or software. Despite the fact that such symptoms rarely indicate infection, we recommend that, upon detecting them, you are recommended to run a complete scan of your computer (see 5.1 on pg. 41).

1.5. What to do if you suspect infection

If you notice that your computer is behaving suspiciously…

Don't panic! This is the golden rule: it could save you from losing important data.

Disconnect your computer from the Internet or local network, if it is on one.

If the computer will not boot from the hard drive (the computer displays an error message when you turn it on), try booting in safe mode or with the emergency operating system boot disk that you created when you installed the operating system.

Before doing anything else, back up your work on removable storage media (floppy, CD/DVD, flash drive, etc.).

Install Kaspersky Anti-Virus 6.0 SOS, if you have not done so already.

Update the program's threat signatures and application modules (see 5.4 on pg. 43). If possible, download the updates off the Internet from a different, uninfected ,computer, for instance at a friend's, an Internet café, or work. It is better to use a different computer since, when you connect an infected computer to the Internet, there is a chance that the virus will send important information to hackers or spread the virus to the addresses in your address book. That is why if you suspect that your computer has a virus, you should immediately disconnect from the Internet. You can also get threat signature updates on floppy disk from Kaspersky Lab or its distributors and update your signatures using the disk.

Select the security level recommended by the experts at Kaspersky Lab.

Start a full computer scan (see 5.1 on pg. 41).

1.6. Preventing Infection

Not even the most reliable and deliberate measures can provide 100% protection against computer viruses and Trojans, but following such a set of rules significantly lowers the likelihood of virus attacks and the level of potential damage.

One of the basic methods of battling viruses is, as in medicine, well-timed *prevention*. Computer prophylactics involve a rather small number of rules that, if complied with, can significantly lower the likelihood of being infected with a virus and losing data.

Basic safety rules are given below. If these are followed, the likelihood of virus attacks will be reduced significantly. However, it must be kept in mind that Kaspersky Anti-Virus 6.0 SOS does not provide continuous computer security.

Rule No. 1: *Use anti-virus software and Internet security programs*. To do so:

- Install Kaspersky Anti-Virus 6.0 SOS as soon as possible.
- Regularly update the program's threat signatures (see 5.4 on pg. 43). You should update the signatures several times per day during virus outbreaks. In such situations, the threat signatures on Kaspersky Lab's update servers are updated immediately.
- Select the settings for a complete scan recommended by Kaspersky Lab, and schedule scans for at least once per week.

Rule No. 2: *Use caution when copying new data to your computer*:

- Scan all removable storage drives, for example floppies, CDs/DVDs, and flash drives, for viruses before using them (see 5.3 on pg. 42).
- Treat emails with caution. Do not open any files attached to emails unless you are certain that you were intended to receive them, even if they were sent by people you know.
- Be careful with information obtained through the Internet. If any web site suggests that you install a new program, be certain that it has a security certificate.
- If you are copying an executable file from the Internet or local network, be sure to scan it with Kaspersky Anti-Virus 6.0 SOS.
- Use discretion when visiting web sites. Many sites are infected with dangerous script viruses or Internet worms.

Rule No. 3: *Pay close attention to information from Kaspersky Lab*.

In most cases, Kaspersky Lab announces a new outbreak long before it reaches its peak. The likelihood of the infection in such a case is low, and once you download the threat signature updates, you will have plenty of time to protect yourself against the new virus.

Rule No. 4: *Do not trust virus hoaxes*, such as prank programs and emails about infection threats.

Rule No. 5: *Use the Windows Update tool* and regularly install Windows operating system updates.

Rule No. 6: *Buy legitimate copies of software from official distributors*.

Rule No. 7: *Limit the number of people who are allowed to use your computer*.

Rule No. 8: *Lower the risk of unpleasant consequences of a potential infection* by backing data up in a timely manner. If you lose your data, the system can fairly quickly be restored if you have backup copies. Store distribution floppies, CDs, flash drives, and other storage media with software and valuable information in a safe place.

Rule No. 9: *Regularly inspect the list of programs installed on your computer*. To do so, open **Install/Remove Programs** in the **Control Panel**, or open the **Program Files** directory. You may discover software here that was installed on your computer without your knowledge, for example, while you were using the Internet or installing a different program. Programs like these are almost always potentially dangerous.

CHAPTER 2. KASPERSKY ANTI-VIRUS 6.0 SOS

Kaspersky Anti-Virus 6.0 SOS heralds a new generation of data security products.

What really sets Kaspersky Anti-Virus 6.0 SOS apart from other software is that this application is a supplemental anti-virus facility providing on-demand scanning functionality. Kaspersky Anti-Virus 6.0 SOS can co-exist with other anti-virus solutions without any conflict.

Kaspersky Anti-Virus 6.0 SOS does not provide continuous anti-virus security!

2.1. What's new in Kaspersky Anti-Virus 6.0 SOS

This section provides a detailed description of new features in Kaspersky Anti-Virus 6.0 SOS.

New Virus Scan Features

- File scanning technology has been improved to lower the CPU load and increase the speed of file scans. This is achieved through the use of iChecker™ technology (see . By operating this way, the program rules out scanning files twice.
- The scan process now runs as a background task, enabling the user to continue using the computer. If there is a competition for system resources, the virus scan will pause until the user's operation is completed and then resumes at the point where it left off.
- Critical areas of the computer, which if infected would seriously affect data quality or security, are given their own separate task. This task can be configured to run automatically every time the system is started.
- The user notification function has been expanded for certain events that arise during program operation. You can select the method of notification yourselves for each of these event types: e-mails, sound notifications, pop-up messages.

- Now the protection system has the option of centralized remote administration, using an added administration interfaced under Kaspersky Administration Kit.

New Program Interface Features

- The new Kaspersky Anti-Virus 6.0 SOS interface makes the program's functions clear and easy to use. You can also change the program's appearance by using your own graphics and color schemes.
- The program regularly provides you with tips as you use it: Kaspersky Anti-Virus 6.0 SOS displays advisories on virus scan and update status, provides runtime hints and tips, and a thorough Help section.

New Program Update Features

- This version of the program debuts our improved update procedure: Kaspersky Anti-Virus 6.0 SOS automatically checks the update source for updates. If it finds new updates, Anti-Virus downloads them and installs them on the computer.
- The program downloads updates incrementally, ignoring files that have already been downloaded. This lowers the download traffic for updates by up to 10 times.
- Updates are downloaded from from the most efficient source.
- You can choose not to use a proxy server, by downloading program updates from a local source. This noticeably reduces the traffic on the proxy server.
- The program has an update rollback feature that can return to the previous version of the signatures, if the threat signatures are damaged or there is an error in copying.
- A tool has been added to Updater that copies updates to a local folder to give other computers on the network access to them. This cuts down on Internet traffic.

2.2. Components of Kaspersky Anti-Virus 6.0 SOS

Kaspersky Anti-Virus 6.0 SOS includes:

- Virus Scan Tasks (see 2.2.1 on pg. 19) that virus-check the computer's memory and file system, as individual files, folders, disks, or regions.

- Support Tools (see 2.2.2 on pg. 19) that provide threat signature updates and support for the program, as well as extend its functionality.

2.2.1. Virus scan tasks

It is extremely important periodically to scan your computer for viruses. Therefore, Kaspersky Anti-Virus 6.0 SOS comprises the following virus scan tasks:

Critical Areas

Scans all critical areas of the computer for viruses. This includes system memory, programs loaded on startup, boot sectors on the hard drive, and the *Microsoft Windows* system directories. The task aims to detect active viruses quickly without fully scanning the computer.

My Computer

Scans for viruses on your computer with a thorough inspection of all disk drives, memory, and files.

Startup Objects

Scans for viruses in all programs that are loaded automatically on startup, plus RAM and boot sectors on hard drives.

There is also the option to create other virus-scan tasks and create a schedule for them. For example, you can create a scan task for email databases once per week, or a virus scan task for the **My Documents** folder.

2.2.2. Program tools

Kaspersky Anti-Virus 6.0 SOS includes a number of support tools, which are designed to provide real-time software support, expanding the capabilities of the program and assisting you as you go.

Update

In order to be prepared for a hacker attack, or to delete a virus or some other dangerous program, Kaspersky Anti-Virus 6.0 SOS needs to be kept up-to-date. The *Updater* component is designed to do exactly that. It is responsible for updating the Kaspersky Anti-Virus 6.0 SOS threat signatures and program modules.

The update distribution feature can save threat signature and application module updates retrieved from Kaspersky Lab update servers in a local folder. It then grants other computers on the network access to them to conserve on Internet bandwidth.

Data Files

At application runtime, a report is generated for virus scan and application update tasks. The reports contain information on completed operations and their results. By using the *Reports* feature, you will remain up-to-date on the execution of any task. Should problems arise, the reports can be sent to Kaspersky Lab, allowing our specialists to study the situation in greater depth and help you as quickly as possible.

Kaspersky Anti-Virus 6.0 SOS sends all files suspected of being dangerous to a special *Quarantine* area, where they are stored in encrypted form to avoid infecting the computer. You can scan these objects for viruses, restore them to their previous locations, delete them, or manually add files to Quarantine. Files that are found not to be infected upon completion of the virus scan are automatically restored to their former locations.

The *Backup* area holds copies of files disinfected and deleted by the program. These copies are created in case you either need to restore the files, or want information about their infection. These backup copies are also stored in an encrypted form to avoid further infection.

You can manually restore a file from Backup to the original location and delete the copy.

Support

All registered Kaspersky Anti-Virus 6.0 SOS users can take advantage of our technical support service. To learn where exactly you can get technical support, use the *Support* feature.

Using these links, you can go to a Kaspersky Lab user forum and a list of frequently asked questions that may help you resolve your issue.. In addition, by completing the form on the site, you can send Technical Support a message on the error or failure in the operation of the application.

You will also be able to access Technical Support on-line, and, of course, our employees will always be ready to assist you with Kaspersky Anti-Virus 6.0 SOS by phone.

2.3. Hardware and software system requirements

For Kaspersky Anti-Virus 6.0 SOS to run properly, your computer must meet these minimum requirements:

General Requirements:

- 50 MB of free hard drive space
- CD-ROM drive (for installing Kaspersky Anti-Virus 6.0 SOS from an installation CD)
- Microsoft Internet Explorer 5.5 or higher (for updating threat signatures and program modules through the Internet)
- Microsoft Windows Installer 2.0

Microsoft Windows 98, Microsoft Windows Me, Microsoft Windows NT Workstation 4.0 (Service Pack 6a):

- Intel Pentium 300 MHz processor or faster (or compatible)
- 64 MB of RAM

Microsoft Windows 2000 Professional (Service Pack 4 or higher), Microsoft Windows XP Home Edition, Microsoft Windows XP Professional (Service Pack 1 or higher), Microsoft Windows XP Professional x64 Edition:

- Intel Pentium 300 MHz processor or compatible
- 128 MB of RAM

Microsoft Windows Vista, Microsoft Windows Vista x64:

- Intel Pentium 800 MHz 32-bit (x86)/ 64-bit (x64) or faster (or compatible)
- 512 MB of RAM

2.4. Software packages

You can purchase the boxed version of Kaspersky Anti-Virus 6.0 SOS from our resellers, or download it from Internet shops, including the **eStore** section of www.kaspersky.com.

If you buy the boxed version of the program, the package will include:

- A sealed envelope with an installation CD containing the program files
- A license key, included with the installation package or on a special diskette, or an application activation code on the CD slip.
- A User Guide
- The end-user license agreement (EULA)

Before breaking the seal on the installation disk envelope, carefully read through the EULA.

If you buy Kaspersky Anti-Virus 6.0 SOS from an online store, you copy the product from the Kaspersky Lab website (**Downloads → Product Downloads**). You can download the User Guide from the **Downloads → Documentation** section.

You will be sent a license key or activation code by email after your payment has been received.

The End-User License Agreement is a legal agreement between you and Kaspersky Lab that specifies the terms on which you may use the software you have purchased.

Read the EULA through carefully.

If you do not agree with the terms of the EULA, you can return your boxed product to the reseller from whom you purchased it and be reimbursed for the amount you paid for the program. If you do so, the sealed envelope for the installation disk must still be sealed.

By opening the sealed installation disk, you accept all the terms of the EULA.

2.5. Support for registered users

Kaspersky Lab provides its registered users with an array of services to make Kaspersky Anti-Virus 6.0 SOS more effective.

When the program has been activated, you become a registered user and will have the following services available until the license expires:

- New versions of the program free of charge
- Consultation on questions regarding installation, configuration, and operation of the program, by phone and email
- Notifications on new Kaspersky Lab product releases and new viruses (this services is for users that subscribe to Kaspersky Lab news mailings)

Kaspersky Lab does not provide technical support for operating system use and operation, or for any products other than its own.

CHAPTER 3. INSTALLING KASPERSKY ANTI-VIRUS 6.0 SOS

Kaspersky Anti-Virus 6.0 SOS can be collocated with other third-party and Kaspersky Lab anti-virus applications. This does not create any conflict with other anti-virus applications with the exception of:

- Kaspersky Anti-Virus 6.0 and 7.0;
- Kaspersky Internet Security 6.0 and 7.0;
- Kaspersky Anti-Virus 6.0 for Windows Workstation;
- Kaspersky Anti-Virus 6.0 for Windows Servers.

Kaspersky Anti-Virus 6.0 SOS does not provide real-time computer security and is a supplemental anti-virus application!

There are several ways to install Kaspersky Anti-Virus 6.0 SOS:

- Local Installation: install the application on a single host. Direct access to the host in question is required to run and complete the install. A local install may be performed in one of the two modes below:
    - an interactive install using the application Installation Wizard (see 3.1 on p. 25); this mode requires user input for the install to proceed;
    - a non-interactive install run from the command line and not requiring any user input for the install to proceed (see 3.3 on p. 33).
- Remote Installation: install the application to networked computers remotely from an administrator workstation using:
    - the Kaspersky Administration Kit software suite (see Kaspersky Administration Kit Deployment Guide);
    - Microsoft Windows Server 2000/2003 group domain policies (see 3.4 on 33).

Before installing Kaspersky Anti-Virus 6.0 SOS, we recommend closing all other applications (this also applies to installation using Kaspersky Administration Kit).

3.1. Installation procedure using the Installation Wizard

To install Kaspersky Anti-Virus 6.0 SOS on your computer, open the Windows Installer file on the installation CD.

Note:
Installing the program with an installer package downloaded from the Internet is identical to installing it from an installation CD.

An installation wizard will open for the program. Each window contains a set of buttons for navigating through the installation process. Here is a brief explanation of their functions:

- **Next** – accepts an action and moves forward to the next step of installation.
- **Back** – goes back to the previous step of installation.
- **Cancel** – cancels product installation.
- **Finish** – completes the program installation procedure.

Let's take a closer look at the steps of the installation procedure.

Step 1. Checking for the necessary system conditions to install Kaspersky Anti-Virus 6.0 SOS

Before the program is installed on your computer, the installer checks your computer for the operating system and service packs necessary to install Kaspersky Anti-Virus 6.0 SOS. It also checks your computer for other necessary programs and verifies that your user rights allow you to install software.

If any of these requirements is not met, the program will display a message informing you of the fault. You are advised to install any necessary service packs through **Windows Update**, and any other necessary programs, before installing Kaspersky Anti-Virus 6.0 SOS.

Step 2. Installation Welcome window

If your system fully meets all requirements, an installation window will appear when you open the installer file with information on beginning the installation of Kaspersky Anti-Virus 6.0 SOS.

To continue installation, click the **Next** button. You may cancel installation by clicking **Cancel**.

Step 3. Viewing the End-User License Agreement

The next window contains the End-User License Agreement which is made between you and Kaspersky Lab. Carefully read through it, and if you agree to all the terms of the agreement, select **I accept the terms of the License Agreement** and click the **Next** button. Installation will continue.

To cancel the installation, press the **Cancel** button.

Step 4. Selecting an installation folder

The next stage of Kaspersky Anti-Virus 6.0 SOS installation determines where the program will be installed on your computer. The default path is:

- **<drive> → Program Files → Kaspersky Lab → Kaspersky Anti-Virus 6.0 SOS** – for 32-bit systems.
- **<drive> → Program Files (x86) → Kaspersky Lab → Kaspersky Anti-Virus 6.0 SOS** – for 64-bit systems.

You can specify a different folder by clicking the **Browse** button and selecting it in the folder selection window, or by entering the path to the folder in the field available.

Remember that if you enter the full path to the installation folder manually, its length must not exceed 200 characters or contain special characters..

To continue installation, click the **Next** button.

Step 5. Searching for other anti-virus programs

In this stage, the installer searches for other anti-virus products installed on your computer.

If another anti-virus application is detected, Kaspersky Anti-Virus 6.0 SOS will proceed with the installation. Otherwise, a warning will be displayed to the effect that the application does not provide full computer anti-virus security.

To continue installation, click the **Next** button.

Step 6. Finishing installing your program

In this stage, the program will ask you to finish installing the program on your computer. You can decide if you want to use the settings and threat signatures from a previous version of Kaspersky Anti-Virus SOS (for example, if you installed the beta version and now you are installing the commercial version).

Let's take a closer look at how to use the options described above.

If you have previously installed another version or build of Kaspersky Anti-Virus SOS on your computer and you saved its threat signatures when you uninstalled it, you can use it in the current version. To do so, check **Threat signatures**. The threat signatures included with the program installation will not be copied to your computer.

To use application settings that you configured and saved from a previous version, check **Application settings**.

To continue installation, click the **Next** button.

Step 7. Selecting Installation Type

In this stage, you select how much of the program you want to install on your computer. You have three options:

Complete. If you select this option, all Kaspersky Anti-Virus 6.0 SOS components will be installed. The installation will recommence with Step 5.

Custom. If you select this option, you can select the program components that you want to install. For more, see Step 8.

To select a setup type, click the appropriate button.

Step 8. Selecting Program Components to Install

This step occurs only if you select the **Custom** setup type.

If you selected Custom installation, you can select the components of Kaspersky Anti-Virus 6.0 SOS that you want to install. By default, the virus scan component and the Administration Agent plug-in for remote administration using Kaspersky Administration Kit.

To select the components you want to install, left-click the icon alongside a component name and select **Will be installed on local hard drive** from the menu. More information on selected component's functionality and the amount of disk space required for its installation is available at the bottom of the program installation window.

If you do not want to install a component, select **Entire feature will be unavailable** item from the context menu. Remember that by choosing not to install a component you deprive yourself of protection against a wide range of dangerous programs.

After you have selected the components you want to install, click **Next**. To return the list to the default programs to be installed, click **Reset**.

Click **Install** in the next window.

Step 9. Completing the installation procedure

The **Complete Installation** window contains information on finishing the Kaspersky Anti-Virus 6.0 SOS installation process.

To start the setup wizard, click **Next** (see 3.2 on page 28).

If installation is completed successfully, you will need to restart your computer, and a message on the screen will tell you so.

3.2. Setup Wizard

The Kaspersky Anti-Virus 6.0 SOS Setup Wizard starts after the installation has been finished. It is designed to help you configure the initial program settings to conform to the features and uses of your computer.

The Setup Wizard interface is designed like a standard Windows Wizard and consists of a series of steps that you can move between using the **Back** and **Next** buttons, or complete using the **Finish** button**.** The **Cancel** button will stop the Wizard at any point.

You can skip this initial settings stage when installing the program by closing the Wizard window. In the future, you can run it again from the program interface if you restore the default settings for Kaspersky Anti-Virus 6.0 SOS (see 10.10 on page 112).

3.2.1. Activating the program

Before activating the program, make sure that the computer's system date settings match the actual date and time.

You can activate the program by installing a license key. Kaspersky Anti-Virus 6.0 SOS check the key for a license agreement and to determine rights for using application and its expiration date.

The license key contains system information necessary for all the program's features to operate, and other information:

- Support information (who provides program support and where you can obtain it)
- Name, number, and expiration date of your license

3.2.1.1. Selecting a program activation method

Depending on whether you have a key for Kaspersky Anti-Virus or need to obtain one from the Kaspersky Lab server, you have several options for activating the program:

- **Activate using the activation code**. Select this activation option if you have purchased the full version of the program and were provided with an activation code. Using this activation code you will obtain a key file providing access to the application's full functionality throughout the effective term of the license agreement.
- **Activate trial version.** Select this activation option if you want to install the trail version of the program before making the decision to buy a commercial version. You will be given a free key valid for a term specified in the trial version license agreement.
- **Apply existing license key**. Activate the application using a Kaspersky Anti-Virus 6.0 license key file.
- **Activate later**. If you choose this option, you will skip the activation stage. Kaspersky Anti-Virus 6.0 SOS will be installed on your computer and you will have access to all program features except updates (you can only update the threat signatures once after installing the program).

The first two activation options use a Kaspersky Lab web server, which requires an Internet connection. Before activating, make sure to edit your network settings (see 9.4.3 on p. 82) in the window that opens when you click **LAN settings** (if necessary). For more in-depth information on configuring network settings, contact your system administrator or ISP.

If you have no Internet connection when installing the program you can activate the application later (see 10.5 on p. 100) using its interface or you can use Internet access of another computer to register at Kaspersky Lab Technical Support website and get the key using activation code.

3.2.1.2. Entering the activation code

You must enter an activation code to activate the program. If you purchase the program through the Internet, you will receive the activation code by e-mail. If you purchase a boxed version of the program, you will find the activation code on the installation CD-ROM envelope.

The activation code is a sequence of numbers and letters separated by dashes into four sections of five characters each, no spaces. For example, 11AA1-11AAA-1AA11-1A111. Note that the code must be entered in Latin characters.

Enter your contact information in the lower part of the window: full name, e-mail address, and country and city of residence. This information might be requested to identify a registered user if, for example, a key is lost or stolen. If that were to happen, your contact information will enable you to obtain a new license key.

3.2.1.3. Obtaining a key file

The Settings Wizard connects to Kaspersky Lab servers and sends them your registration data (the activation code and personal information), which are inspected on the server.

If the activation code passes inspection, the Wizard receives a key file. If you install the demo version of the program, the Settings Wizard will receive a trial key file without an activation code.

The file received will be installed automatically to use the program and you will see an activation completion window with detailed information on the key being used.

If the activation code does not pass inspection, you will see a corresponding message on the screen. If this occurs, contact the software vendors from whom you purchased the program for information.

3.2.1.4. Selecting a license key file

If you have a license key file for Kaspersky Anti-Virus 6.0 SOS, the Wizard will ask if you want to install it. If you do, use the **Browse** button and select the file path for the key file with the *.key* extension in the file selection window.

After you have successfully installed the key, you will see information about the license in the lower part of the window: name of the person to whom the software is registered, license number, license type (full, beta-testing, demo, etc.), and the key expiration date.

3.2.1.5. Completing program activation

The Setup Wizard will inform you that the program has been successfully activated. It will also display information on the license key installed: name of the person to whom the software is registered, license number, license type (full, beta-testing, demo, etc.), and the expiration date for the key.

3.2.2. Configuring update settings

The efficiency of virus scan tasks on your computer depends directly on updating the threat signatures and program modules regularly. In this window, the Setup Wizard asks you to select a mode for program updates, and to configure a schedule.

Automatically. Kaspersky Anti-Virus 6.0 SOS checks the update source for updates at specified intervals. During virus outbreaks, the check frequency may increase, and decrease when they are gone. If it finds new updates, Anti-Virus downloads them and installs them on the computer. This is the default setting.

Every 2 hours.Updates will run automatically according to the schedule created. You can configure the schedule by clicking **Edit**.

Manually. If you choose this option, you will run program updates yourself.

Note that the threat signatures and program modules included with the software may be outdated by the time you install the program. That is why we recommend downloading the latest program updates. To do so, click **Update now**. Then Kaspersky Anti-Virus 6.0 SOS will download the necessary updates from the update servers and will install them on your computer.

If you want to configure updates (set up network properties, select the resource from which updates will be downloaded, set up running task under a certain account or enable update distribution option), click **Settings**.

3.2.3. Configuring a virus scan schedule

Scanning selected areas of your computer for malicious objects is one of the key steps in protecting your computer.

When you install Kaspersky Anti-Virus 6.0 SOS, three default virus scan tasks are created. In this window, the Setup Wizard asks you to choose a scan task setting:

Startup objects

By default, Kaspersky Anti-Virus 6.0 SOS automatically scans Startup objects when it starts up. You can edit the schedule properties in another window by clicking **Change**.

Critical Areas

To automatically scan critical areas of your computer (system memory, Startup objects, boot sectors, Windows system folders) for viruses, check the appropriate box. You can configure the schedule by clicking **Change**.

The default setting for this automatic scan is disabled.

My Computer

For a full virus scan of your computer to run automatically, check the appropriate box. You can configure the schedule by clicking **Change**.

The default setting, for scheduled running of this task, is disabled. However, we recommend running a full virus scan of your computer immediately after installing the program.

3.2.4. Restricting program access

Kaspersky Anti-Virus 6.0 SOS gives you the option of password-protecting the program, since several people with different levels of computer literacy may use the same computer, and since malicious programs could potentially attempt to disable protection. Using a password can protect the program from unauthorized attempts to disable protecting or change settings.

To enable password protection, check ☑ **Enable password protection** and complete the **New Password** and **Confirm password** fields. If you are using a password already and wish to change it, complete the **Old Password** field as well.

Select the area below that you want password protection to apply to:

◉ **All operations (other than warning notifications)**. Request password if the user attempts any action with the program, except for responses to notifications on detection of dangerous objects.

◉ **Selected operations:**

- ☑ **Saving program settings** – request password when a user attempts to save changes to program settings.
- ☑ **Exiting the program** – request password if a user attempts to exit the program.
- ☑ **Stopping / pausing virus scan tasks** – request password if user attempts to pause or completely disable any virus scan task.

3.2.5. Finishing the Setup Wizard

In the final window, check ☑ **Launch Application** as needed and click **Finish**.

3.3. Installing the program from the command prompt

To install Kaspersky Anti-Virus 6.0 SOS, enter this at the command prompt:

```
msiexec / i <package_name>
```

The Installation Wizard will start (see 3.1 on pg. 25).

To install the application non-interactively (without running the Installation Wizard), enter:

```
msiexec /i <package_name> /qn
```

To install the application with an uninstall password, enter:

`msiexec /i <package_name> KLUNINSTPASSWD=******`, when performing an interactive installation;

`msiexec /i <package_name> KLUNINSTPASSWD=****** /qn`, when performing a non-interactive installation without system reboot;

If you install Kaspersky Anti-Virus in noninteractive mode, you can access the file *setup.ini*, which contains the general settings for application installation (see A.4 on pg. 153), the configuration *install.cfg* (see 11.7 on p. 123) and the license key file. Note that these files must be located in the same folder as the Kaspersky Anti-Virus installer package.

3.4. Procedure for installing the Group Policy Object

This feature is supported on computers running Microsoft Windows 2000 Server or higher.

Using **Group Policy Object Editor**, you can install, update, and uninstall Kaspersky Anti-Virus on enterprise workstations within the domain without using Kaspersky Administration Kit.

3.4.1. Installing the program

To install Kaspersky Anti-Virus:

1. Create a shared folder on the computer that is the domain controller and copy the Kaspersky Anti-Virus *.msi* installer package to it.

You can also copy in the file *setup.ini*, which contains the general settings for application installation (see A.4 on pg. 153), the configuration *install.cfg* (see 11.7 on p. 123), and the license key file.

2. Open **the Group Policy Object Editor** via MMC (for more detailed information on using Group Policy Object, consult help in Microsoft Windows Server).

3. Create a new package. To do so, from the console tree, select **Group Policy Object/ Computer Configuration/ Software Settings/ Software installation** and use the command **New/ Package** from the context menu.

   In the window that opens, specify the path to the shared folder with the Anti-Virus installer (see 1). Select **Assign** from the **Select Deployment Method** dialog box and click **OK**.

The group policy will be enforced on each workstation the next time the computer is registered in the domain. Kaspersky Anti-Virus will then be installed on all computers.

3.4.2. Upgrading the program

To upgrade Kaspersky Anti-Virus:

1. Copy the installer package containing the Kaspersky Anti-Virus update in *.msi* format to the shared folder.

2. Open **Group Policy Object Editor** and created a new package using the steps given above.

3. Select the new package and select the **Properties** command from the context menu. In the package properties window, go to the **Upgrades** tab and specify the package that contains the installer for the previous version of Kaspersky Anti-Virus. To install the Kaspersky Anti-Virus upgrade and keep your protection settings, select a variant of upgrading the previous version.

The group policy will be enforced on each workstation the next time the computer is registered in the domain.

Note that Kaspersky Anti-Virus on computers running Microsoft Windows 2000 Server cannot be upgraded using Group Policy Object Editor.

3.4.3. Uninstalling the program

To uninstall Kaspersky Anti-Virus:

1. Open **Group Policy Object Editor**.
2. To do so, from the console tree, select **Group Policy Object/ Computer Configuration/ Software Settings/ Software installation**.

   Select the Kaspersky Anti-Virus package from the list. Open the context menu and select the command **All Tasks/ Remove**.

   In the **Remove Software** dialog box, select **Immediately uninstall the software from users and computers** for Kaspersky Anti-Virus to be uninstalled the next time a computer restarts.

3.5. Upgrading from 5.0 to 6.0

If Kaspersky Anti-Virus 5.0 SOS is installed on your computer, you can upgrade it to Kaspersky Anti-Virus 6.0 SOS.

After you start the Kaspersky Anti-Virus 6.0 SOS installation program, you will be given the choice of first uninstalling the already installed version 5.0. Once the uninstall process is complete, you must restart your computer, after which version 6.0 installation will run.

Warning!

When you upgrade Kaspersky Anti-Virus SOS 5.0 to 6.0 from a password-protected network folder, version 5.0 will be uninstalled without then installing version 6.0 of the application. This is because the installer program does not have access privileges to the network folder. To resolve this problem, only run the installer from a local folder.

CHAPTER 4. PROGRAM INTERFACE

Kaspersky Anti-Virus 6.0 SOS has a straightforward, user-friendly interface. This chapter will discuss its basic features:

- System tray icon (see 4.1 on pg. 36)
- Context menu (see 4.2 on pg. 37)
- Main window (see 4.3 on pg. 38)
- Program settings window (see 4.4 on pg. 40)

In addition to the main program interface, there is an extension (plug-in) for Microsoft Windows Explorer (see 7.2 on pg. 57). The plug-in extends the functionality of Microsoft Windows Explorer by providing the capability to manage Kaspersky Anti-Virus 6.0 SOS out of its interface.

4.1. System tray icon

As soon as you install Kaspersky Anti-Virus 6.0 SOS, its icon will appear in the system tray.

The icon is an indicator for Kaspersky Anti-Virus 6.0 SOS functions. It reflects a number of basic functions performed by the program. If the icon shows up in the system tray, this is an indication that Kaspersky Anti-Virus 6.0 SOS is active.

The Kaspersky Anti-Virus 6.0 SOS icon changes in relation to the operation being performed:

	A file is being scanned.
	Kaspersky Anti-Virus 6.0 SOS threat signatures and program modules are being updated.
	An error has occurred in Kaspersky Anti-Virus 6.0 SOS.

The icon also provides access to the basics of the program interface: the context menu (see 4.2 on pg. 37) and the main window (see 4.3 on pg. 38).

To open the context menu, right-click on the program icon.

To open the Kaspersky Anti-Virus 6.0 SOS main window to the **Virus Scan** section (this is the default first screen when you open the program), double-click the program icon. If you single-click the icon, the main window will open at the section that was active when you last closed it.

4.2. The context menu

You can perform basic protection tasks from the context menu (see Figure 1).

The Kaspersky Anti-Virus 6.0 SOS menu contains the following items:

Scan My Computer – launches a complete scan of your computer for dangerous objects. The files on all drives, including removable storage media, will be scanned.

Virus scan… – selects objects and starts virus scan. The default list contains a number of files, such as the **My Documents** folder, the Startup folder, email databases, all the drives on your computer, etc. You can add to the list, select files to be scanned, and start virus scans.

Figure 1. The context menu

Update – starts program modules and threat signatures update and installs them on your computer.

Activate… – activate the program. You must activate your version of Kaspersky Internet Security to obtain registered user status which provides access to the full functionality of the application and Technical Support. This menu item is only available if the program is not activated.

Settings… – view and configure settings for Kaspersky Anti-Virus 6.0 SOS.

Open Kaspersky Anti-Virus – open the main program window (see 4.3 on pg. 38).

Exit – close Kaspersky Anti-Virus 6.0 SOS (when this option is selected, the application will be unloaded from the computer's RAM).

If a virus search task is running, the context menu will display its name with a percentage progress meter. By selecting the task, you can open the report window to view current performance results.

4.3. Main program window

The Kaspersky Anti-Virus 6.0 SOS main window (see Figure 2) can be logically divided into two parts:

- the left part of the window, the *navigation* panel, guides you quickly and easily to any update and virus scan task or the program's support tools;
- the right part of the window, the *information* panel, presents the tools to carry out virus scans, work with quarantined files and backup copies, manage license keys, and so on.

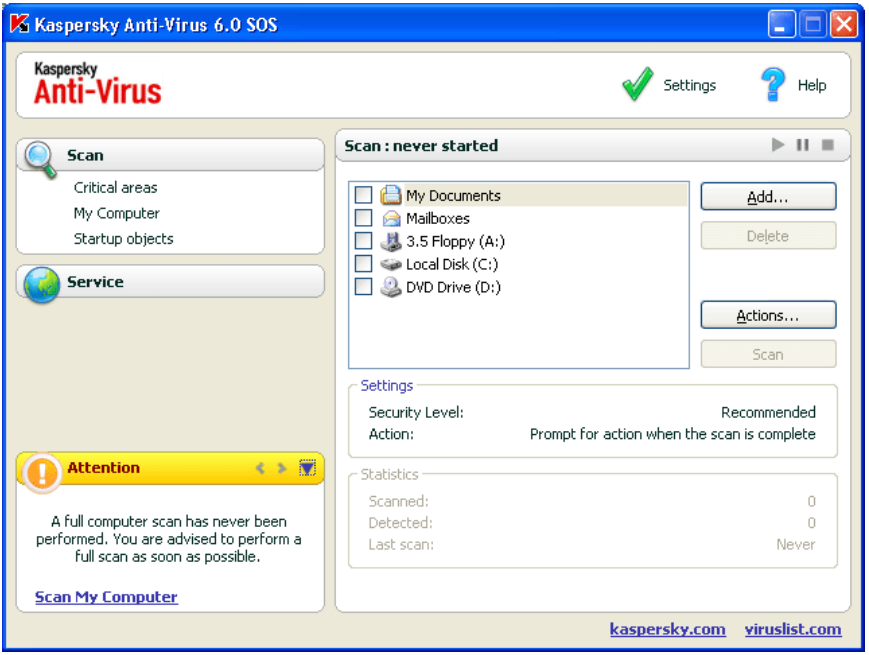
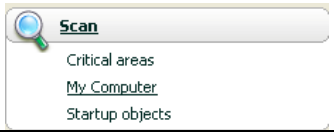
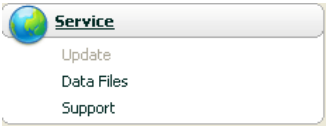
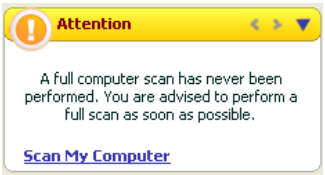


Figure 2. Kaspersky Anti-Virus 6.0 SOS

After selecting a section in the left part of the window, you will find information in the right-hand part that matches your selection.

We will now examine the elements in the main window's navigation panel in greater detail.

Main Window Section	Purpose
To scan your computer for malicious files or programs, use the special **Scan** section in the main window. 	This section contains a list of objects that can be scanned for viruses. The commonest and most important tasks are included in the section. These include virus scan tasks for critical areas, for startup programs, and a full computer scan.
The **Service** section includes additional Kaspersky Anti-Virus 6.0 SOS. 	Here you can update the program, view virus scan reports, work with quarantined objects and backup copies, review technical support information, and manage license keys.
The **Comments and tips** section accompanies you as you use the application. 	This section offers tips on raising the security level of your computer. You will also find comments on the application's current performance and its settings. The links in this section guide you to take the actions recommended for a particular section or to view information in more detail.

Each element of the navigation panel is accompanied by a special context menu. The menu contains points for tools that help the user quickly configure them, manage them, and view reports. There is an additional menu item for virus scan and update tasks that allows you to create your own task, by modifying a copy of an existing task.

You can change the appearance of the program by creating and using your own graphics and color schemes.

4.4. Program settings window

You can open the Kaspersky Anti-Virus 6.0 SOS settings window from the main window (see 4.3 on pg. 38). To do so, click Settings in the upper part of it.

The settings window (see Figure 3) is similar in layout to the main window:

- the left part of the window gives you quick and easy access to the settings for update and virus scan tasks and program tools;
- the right part of the window contains a detailed list of settings for the item selected in the left part of the window.

When you select any section or task in the left part of the settings window, the right part will display its basic settings. To configure advanced settings, you can open second and third level settings windows. You can find a detailed description of program settings in the appropriate sections hereof.

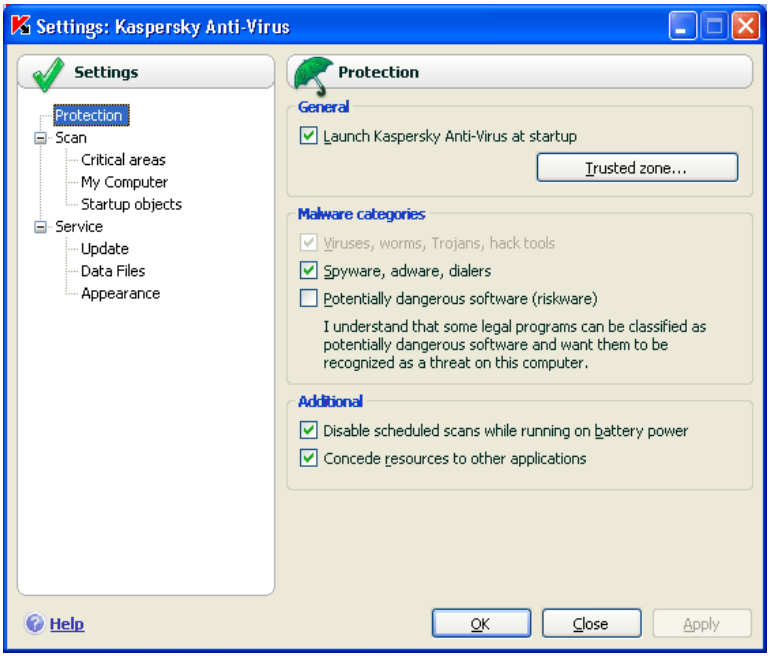


Figure 3. Kaspersky Anti-Virus 6.0 SOS settings window

CHAPTER 5. GETTING STARTED

One of Kaspersky Lab's main goals in creating Kaspersky Anti-Virus 6.0 SOS was to provide optimum configuration for each of the program's options. This makes it possible for a user with any level of computer literacy to quickly protect their computer straight after installation.

However, configuration details for your computer, or the jobs you use it for, can have their own specific requirements. That is why we recommend performing a preliminary configuration to achieve the most flexible, personalized protection of your computer.

To make getting started easier, we have combined all the preliminary configuration stages in one Setup Wizard (see 3.2 on pg. 28) that starts as soon as the program is installed. By following the Wizard's instructions, you can activate the program, configure settings for updates and virus scans, password-protect access to the program, etc.

After installing and starting the program, we recommend that you take the following steps:

- Update the program (see 5.4 on pg. 43) if the Settings Wizard did not do so automatically after installing the program.
- Scan the computer (see 5.1 on pg. 41) for viruses.

5.1. How to scan your computer for viruses

After installation, the application will without fail inform you with a special notice in the lower left-hand part of the application window that the computer has not yet been scanned and will recommend that you scan it for viruses immediately.

Kaspersky Anti-Virus 6.0 SOS includes a task for a computer virus scan located in the **Scan** section of the program's main window.

After you select the task **My Computer**, you will be able to see the following: statistics for the most recent computer scan; task settings; what level of security is selected, and what actions will be taken for dangerous objects.

To scan your computer for malicious programs,

1. Open main program window and select the task **My computer** in the **Scan** section.

2. Click the **Scan** button.

As a result, the program will start scanning your computer, and the details will be shown in a special window. When you click the **Close** button, the progress window will be hidden, but the scan will not stop.

5.2. How to scan critical areas of the computer

There are areas on your computer that are critical from a security perspective. These are targeted by malicious programs which aim to damage your computer's hardware, including operating system, processor, memory, etc.

It is extremely important to protect these critical areas so that your computer keeps running. There is a special virus scan task for these areas, which is located in the program's main window in the **Scan** section.

After selecting the task **Critical Areas**, you will be able to see the following: statistics for the most recent scan of these areas; task settings; what level of protection was selected, and what actions are applied to security threats. Here you can also select which critical areas you want to scan, and immediately scan those areas.

To scan critical areas of your computer for malicious programs,

1. Open main program window and select the task **My computer** in the **Scan** section.
2. Click the **Scan** button.

When you do this, a scan of the selected areas will begin, and the details will be shown in a special window. When you click the **Close** button, the progress window will be hidden, but the scan will not stop.

5.3. How to scan a file, folder or disk for viruses

There are situations when it is necessary to scan individual objects for viruses but not the entire computer. For example, one of the hard drives, on which your programs and games, e-mail databases brought home from work, and archived files that came with e-mail are located, etc. You can select an object for scan with the standard tools of the Microsoft Windows operating system (for example, in the **Explorer** program window or on your **Desktop**, etc.).

To scan an object,

Place the cursor over the name of the selected object, open the Windows context menu by right-clicking, and select **Scan for viruses** (see Figure 4).

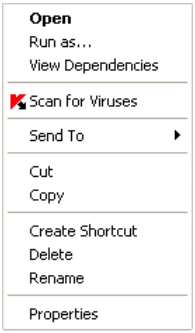


Figure 4. Scanning an object selected using a standard Windows context-sensitive menu

A scan of the selected object will then begin, and the details will be shown in a special window. When you click the **Close** button, the progress window will be hidden, but the scan will not stop.

5.4. How to update the program

Kaspersky Lab updates the threats signatures and modules for Kaspersky Anti-Virus 6.0 SOS using dedicated update servers.

Kaspersky Lab's update servers are the Kaspersky Lab Internet sites where the program updates are stored.

Warning!

You will need a connection to the Internet to update Kaspersky Anti-Virus 6.0 SOS.

By default, Kaspersky Anti-Virus 6.0 SOS automatically checks for updates on the Kaspersky Lab servers. If the server has the latest updates, Kaspersky Anti-Virus 6.0 SOS will download and install them in the silent mode.

To update Kaspersky Anti-Virus 6.0 SOS manually,

select the **Update** component in the **Service** section of the main program window and click the **Update now!** button in the right-hand part of the window.

As a result, Kaspersky Anti-Virus 6.0 SOS will begin the update process, and display the details of the process in a special window.

CHAPTER 6. APPLICATION MANAGEMENT

Kaspersky Anti-Virus 6.0 SOS lets you multi-task computer security management:

- Enable/ disable (see 6.1 on pg. 45) the program
- Define the types of dangerous programs (see 6.2 on pg. 45) against which Kaspersky Anti-Virus 6.0 SOS will protect your computer
- Create an exclusion list (see 6.3 on pg. 46) for protection
- Create your own virus scan and update tasks (see 6.4 on pg. 51).
- Configure a virus scan schedule (see 6.5 on pg. 53).
- Configure productivity settings (see 6.6 on pg. 54) for antivirus protection

6.1. Disabling/ Enabling Application

By default, Kaspersky Anti-Virus boots at startup and protects your computer the entire time you are using it.

If you have to shut down Kaspersky Anti-Virus 6.0 SOS, select **Exit** from the program's context menu (see 4.2 on pg. 37). This will unload the application from RAM.

After closing the program, you can enable computer protection again by opening Kaspersky Anti-Virus 6.0 SOS (**Start**→ **All Programs** → **Kaspersky Anti-Virus 6.0 SOS** → **Kaspersky Anti-Virus 6.0 SOS**).

The application may be launched automatically at operating system reboot. To enable this feature, select the **Protection** section in the program settings window and check **Launch Kaspersky Anti-Virus at startup**.

6.2. Types of malicious programs to be monitored

Kaspersky Anti-Virus 6.0 SOS searches for various types of malicious programs. Regardless of your settings, the program always protects your computer against

the most dangerous types of malicious programs such as viruses, Trojans, and hack tools. These programs can do significant damage to your computer. To make your computer more secure, you can expand the list of threats that the program will detect by making it monitor additional types of dangerous programs.

To choose what malicious programs Kaspersky Anti-Virus 6.0 SOS will protect you from, select the **Protection** section in the program settings window (see 4.4 on pg. 40).

The **Malware categories** box contains threat types (see 1.1 on pg. 8):

- **Viruses, worms, Trojans, hack tools**. This group combines the most common and dangerous categories of malicious programs. This is the minimum admissible security level. Per recommendations of Kaspersky Lab experts, Kaspersky Anti-Virus 6.0 SOS always monitors this category of malicious programs.
- **Spyware, adware, dialers**. This group includes potentially dangerous software that may inconvenience the user or incur serious damage.
- **Potentially dangerous software (riskware)**. This group includes programs that are not malicious or dangerous. However, under certain circumstances they could be used to cause harm to your computer.

The above groups control what part of the threat signatures is to be utilized when scanning for viruses on your computer.

If all groups are selected, Kaspersky Anti-Virus 6.0 SOS provides the fullest possible virus scan of your computer. If the second and third groups are disabled, the program will only scan for the most common malicious objects. This does not include potentially dangerous programs and others that could be installed on your computer and could damage your files, steal your money, or take up your time.

Kaspersky Lab does not recommend disabling monitoring for the second group. When situations arise when Kaspersky Anti-Virus 6.0 SOS classifies a program as potentially dangerous that you feel is not, we recommend configure an exclusion for it (see 6.3 on pg. 46).

6.3. Creating a trusted zone

A *trusted zone* is a list of objects created by the user, that Kaspersky Anti-Virus 6.0 SOS does not scan. In other words, it is a set of programs excluded from scans.

The user creates a protected zone based on the properties of the files he uses and the programs installed on his computer.

You can exclude files of certain formats from the scan, use a file mask, or exclude a certain area (for example, a folder or a program), or objects according to Virus Encyclopedia classification (the status that the program assigns to objects during a scan).

Warning!
An exclusion object is not scanned when the disk or folder where it is located is scanned. However, if you select that object specifically, the exclusion rule will not be applied.

In order to create an exclusion list,

1. Open the application settings window and select the **Protection** section.
2. Click the **Trusted Zone** button in the **General** section.
3. Configure exclusion rules for objects (see Figure 5).

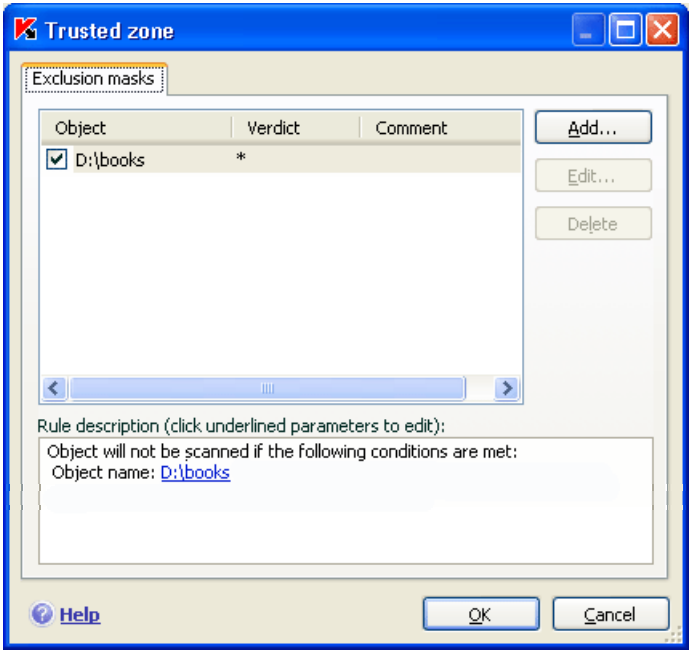


Figure 5. Creating a trusted zone

Exclusion rules are sets of conditions that Kaspersky Anti-Virus 6.0 SOS uses to determine not to scan an object.

You can exclude files of certain formats from the scan, use a file mask, or exclude a certain area, such as a folder, or objects according to their verdict.

The *verdict* is the status that Kaspersky Anti-Virus 6.0 SOS assigns to an object during the scan. A verdict is based on the classification of malicious and potentially dangerous programs found in the Kaspersky Lab Virus Encyclopedia.

Potentially dangerous software does not have a malicious function but can be used as an auxiliary component for a malicious code, since it contains holes and errors. This category includes, for example, remote administration programs, IRC clients, FTP servers, all-purpose utilities for stopping or hiding processes, keyloggers, password macros, autodialers, etc. These programs are not classified as viruses. They can be divided into several types, e.g. Adware, Jokes, Riskware, etc. (for more information on potentially dangerous programs detected by Kaspersky Anti-Virus 6.0 SOS, see the Virus Encyclopedia at www.viruslist.com). After the scan, these programs may be blocked. Since several of them are very common, you have the option of excluding them from the scan. To do so, you must add the name or threat mask of the object to the trusted zone using the Virus Encyclopedia classification.

For example, imagine you use a Remote Administrator program frequently in your work. This is a remote access system with which you can work from a remote computer. Kaspersky Anti-Virus 6.0 SOS views this sort of application activity as potentially dangerous and may block it. To keep the application from being blocked, you must create an exclusion rule that specifies not-a-virus:RemoteAdmin.Win32.RAdmin.22 as a verdict.

When you add an exclusion, a rule is created which is used by virus scan tasks. You can create exclusion rules in a special window that you can open from the program settings window, from the notice about detecting the object, and from the report window.

*To add exclusions on the **Exclusion Rule** tab:*

1. Click on the **Add** button in the **Exclusion mask** tab.
2. In the window that opens (see Figure 6), click the exclusion type in the **Properties** section:

   Object – exclusion of a certain object, directory, or files that match a certain mask from scans.

   Verdict – excluding an object from the scan based on its status from the Virus Encyclopedia classification.

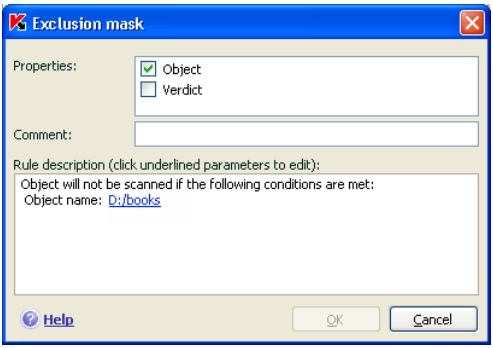


Figure 6. Creating an exclusion rule

If you check both boxes at once, a rule will be created for that object with a certain status according to Virus Encyclopedia classification. In such a case, the following rules apply:

- If you specify a certain file as the **Object** and a certain status in the **Verdict** section, the file specified will only be excluded if it is classified as the threat selected during the scan.
- If you select an area or folder as the **Object** and the status (or verdict mask) as the **Verdict**, then objects with that status will only be excluded when that area or folder is scanned.

3. Assign values to the selected exclusion types. To do so, left-click in the **Rule description** section on the specify link located next to the exclusion type:

   - For the **Object** type, enter its name in the window that opens (this can be a file, a particular folder, or a file mask (see A.2 on pg. 152). Check **Include subfolders** for the object (file, file mask, folder) to be recursively excluded from the scan. For example, if you assign **C:\Program Files\winword.exe** as an exclusion and checked the scan nested folders option, the file **winword.exe** will be excluded from the scan if found in any folder under **C:\Program Files**.
   - Enter the full name of the threat that you want to exclude from scans as given in the Virus Encyclopedia or use a mask (see A.3 on pg. 152) for the **Verdict**.

     For some verdicts, you can assign advanced conditions for applying rules in the **Advanced settings** field. You can specify name, mask or full path to the object as an additional parameter. In most cases this field is automatically filled in after

adding an exclusion rule from the alert which informs about found dangerous object.

To create an exclusion rule from a program notice stating that it has detected a dangerous object:

1. Use the Add to trusted zone link in the notification window (see Figure 7).
2. In the window that opens, be sure that all the exclusion rule settings match your needs. The program will fill in the object name and threat type automatically, based on information from the notification. To create the rule, click **OK**.

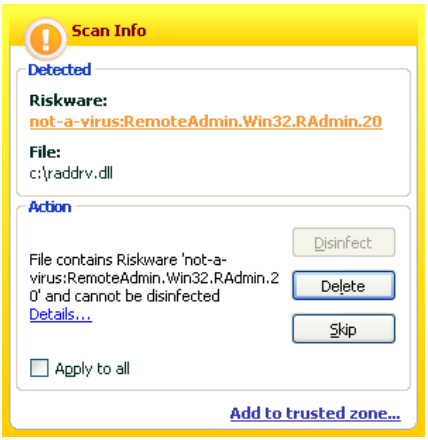


Figure 7. Dangerous object detection notification

To create an exclusion rule from the report window:

1. Select the object in the report that you want to add to the exclusions.
2. Open the context menu and select **Add to Trusted zone** (see Figure 8).

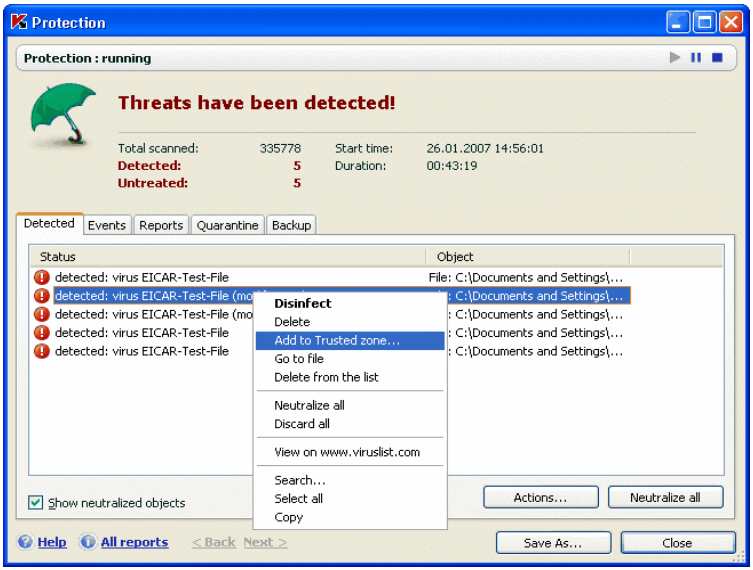


Figure 8. Creating an exclusion rule from a report

3. The exclusion settings window will then open. Be sure that all the exclusion rule settings match your needs. The program will fill in the object name and threat type automatically based on the information from the report. To create the rule, click **OK**.

6.4. Starting tasks under another profile

Kaspersky Anti-Virus 6.0 SOS has a feature that can start scan tasks under another user profile. This feature is by default disabled, and tasks are run under the profile under which you are logged into the system.

The feature is useful if for example, you need access rights to a certain object during a scan. By using this feature, you can configure tasks to run under a user that has the necessary privileges.

Note that this option is not available under Microsoft Windows 98/ME.

Program updates may be made from a source to which you do not have access (for example, the network update folder) or authorized user rights for a proxy server. You can use this feature to run the Updater with another profile that has those rights.

To configure a scan task that starts under a different user profile:

1. Select the task name in the **Scan** section (for virus scans) or the Service section (for tasks) of the main window and use the Settings link to open the task settings window.
2. Click the **Customize** button in the task settings window and go to the **Additional** tab in the window that opens (see Figure 9).

To enable this feature, check **Run this task as**. Enter the data for the login that you want to start the task as below: user name and password.

Note that if you do not run the task as a user with appropriate privileges, the scheduled update will be run with the privileges of the current user account. If no users are currently logged into the computer, running updates under another user account has not been configured, and updates run automatically, they will run with the SYSTEM privileges.

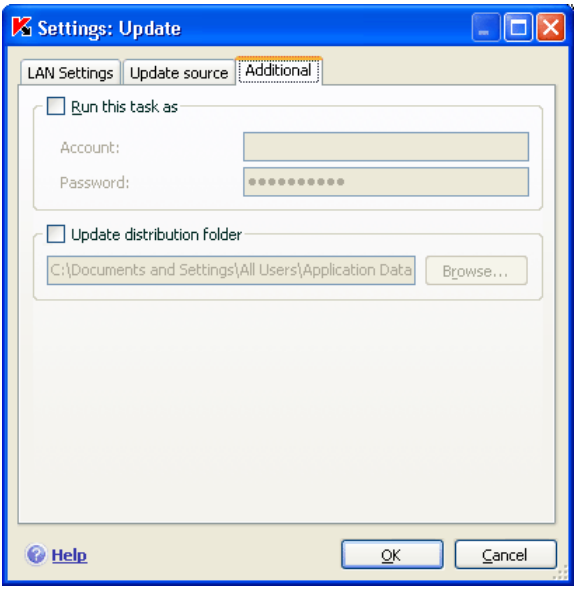


Figure 9. Configuring an update task from another profile

6.5. Configuring Scheduled Tasks and Notifications

Schedule settings are identical for virus scan tasks, application updates, and Kaspersky Anti-Virus event notifications.

By default, the virus scan tasks created at application install are disabled. Startup objects are the exception since they are scanned every time Kaspersky Anti-Virus is started. Updates are configured to occur automatically by default as updates become available on Kaspersky Lab update servers.

In the event that you are not satisfied with these settings, you may reconfigure the scheduling. Select a task by name under **Scan** (for virus scan tasks) or **Service** (for updates and update distribution) and open the related settings window by clicking Settings.

To have tasks start according to a schedule, check the automatic task start box in the **Run Mode** section. You can edit the times for starting the scan task in the **Schedule** window (see Figure 10), that opens when you click **Change**.

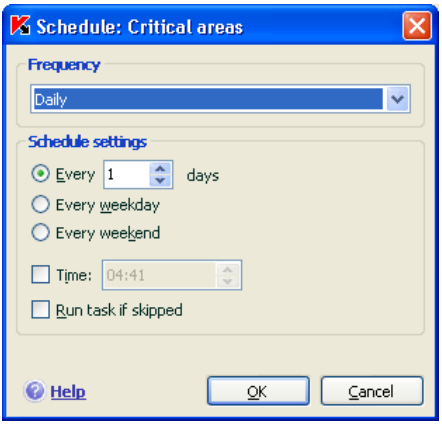


Figure 10. Configuring a task schedule

The primary setting to define is the frequency of an event (task execution or notification). Select the desired option under **Frequency** (see Figure 10). Then, settings for the selected option are to be specified under Schedule Settings. The following options are available:

Minutely. The time interval between scans or sending notifications will be a number of minutes, not greater than 59. Specify the number of minutes between scans in the schedule settings.

Hourly. The interval between scans or sending notifications is calculated in hours. Enter the number of hours in the schedule settings: **Every *n*-th hour** and enter the value for *n*. For example, enter **Every 1 hour** if you want the task to run hourly.

Daily – the period between scans is calculated in days. Specify how often the scan should run in the schedule settings:

- Select the **Every *n*-th day** option and enter a value for *n* if you want to run the scan every other day.
- Select item **Every weekday** if you want the scan to run daily, Monday through Friday.
- Select item **Every weekend** for the task to run on Saturdays and Sundays only.

  In addition to the frequency, in the **Time** field specify what time of day or night the scan task will run.

Weekly – the scan or sending notofocation task will run on certain days of the week. If you select this option, put checkmarks next to the days of the week that on which you want the task to run in the schedule settings. Also enter the time at which the task will run in the **Time** field.

Monthly – the task or sending notification will run once per month, at the specified day and time.

At a specified time. The task or sending notification will run once on the day and at the time that you specify.

On program startup. Run task or send notification every time Kaspersky Anti-Virus starts. A time delay may also be specified relative to the start of the application for a task to be run.

After each update. The task starts after each threat signature update (this only applies to virus scan tasks).

If a scan task is unavailable for any reason (for example, mail client was not installed the computer was not on at that time), you can configure the task to start automatically as soon as it becomes possible. To do so, check **Run task if skipped** in the schedule window.

6.6. Power options

To conserve the battery of your laptop computer, and to reduce the load on the central processor and disk subsystems, you can postpone virus scans:

- Since virus scans and program updates sometimes require a fair amount of resources and can take up time, you are advised to disable schedules for these tasks, which will help you to save battery life. If necessary, you can manually update the program yourself (see 5.4 on pg. 43) or start a virus scan (see 5.1 on pg. 41). To use the battery-saving feature, check **Disable scheduled scans while running on battery power** box.

- Virus scans increase the load on the central processor and disk subsystems, thereby slowing down other programs. By default, if such a situation arises, the program pauses virus scans and frees up system resources for user applications.

  However, there are a number of programs that can be launched as soon as the processor's resources are freed and run in background mode. For virus scans not to depend on the operation of such programs, uncheck **Consede resources to other applications**.

  Note that this setting can be configured individually for every virus scan task. If you choose to do this, the configuration for a specific task has a higher priority.

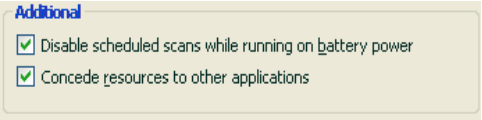


Figure 11. Configuring power settings

To configure power settings for virus scan tasks:

Select the **Protection** section of the main program window and click Settings. Configure power settings in the **Additional** box (see Figure 11).

CHAPTER 7. SCANNING FOR VIRUSES ON THE COMPUTER

Kaspersky Anti-Virus 6.0 SOS can scan individual items – files, folders, disks, plug-and-play devices – or the entire computer. Scanning for viruses stops malicious code which has gone undetected by protection components from spreading.

Kaspersky Anti-Virus 6.0 SOS includes the following default scan tasks:

Critical Areas

Scans all critical areas of the computer for viruses, including: system memory, programs loaded on startup, boot sectors on the hard drive, and the *Windows* and *system32* system directories. The task aims to detect active viruses quickly on the system without fully scanning the computer.

My Computer

Scans for viruses on your computer with a thorough inspection of all disk drives, memory, and files.

Startup Objects

Scans for viruses all programs loaded when the operating system boots.

The default settings for these tasks are the recommended ones. You can edit these settings (see 7.4 on pg. 60) or create a schedule (see 6.5 on pg. 53) for running tasks.

You also have the option of creating your own tasks (see 7.3 on pg. 59) and creating a schedule for them. For example, you can schedule a scan task for email databases once per week, or a virus scan task for the **My Documents** folder.

In addition, you can scan any object for viruses (for example, the hard drive where programs and games are, e-mail databases that you've brought home from work, an archive attached to an e-mail, etc.) without creating a special scan task. You can select an object to scan from the Kaspersky Anti-Virus 6.0 SOS interface, or with the standard tools of the Windows operating system (for example, in the **Explorer** program window or on your **Desktop**).

You can view a complete list of virus scan tasks for your computer by clicking on **Scan** in the left-hand pane of the main application window.

7.1. Managing virus scan tasks

You can run a virus scan task manually or automatically using a schedule (see 6.5 on pg. 53).

To start a virus scan task manually:

Check the box beside the task name in the **Scan** section of the main program window, and click the ▶ button on the status bar.

The tasks currently being performed (including tasks created through Kaspersky Administration Kit) are displayed in the context menu by right-clicking on the system tray icon

To pause a scan task:

Click the ❚❚ button on the status bar. The task status will change to *paused*. This will pause the scan until you start the task again manually or it starts again automatically according to the schedule.

To stop a scan task:

Click the ■ button on the status bar. The task status will change to *stopped*. This will stop the scan until you start the task again manually or it starts again automatically according to the schedule. The next time you run the task, the program will ask if you would like to continue the task where it stopped or begin it over.

7.2. Creating a list of objects to scan

To view a list of objects to be scanned for a particular task, select the task name (for example, **My computer**) in the **Scan** section of main program window. The list of objects will be displayed in the right-hand part of the window under the status bar (see Figure 12).

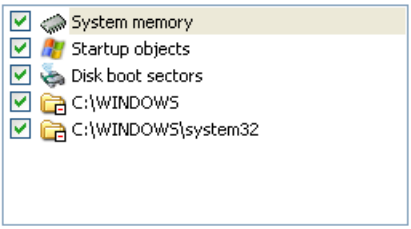


Figure 12. List of objects to scan

Object scan lists are already made for default tasks created when you install the program. When you create your own tasks or select an object for a virus scan task, you can create a list of objects.

You can add to or edit an object scan list using the buttons to the right of the list. To add a new scan object to the list, click the **Add** button, and in the window that opens select the object to be scanned.

For the user's convenience, you can add categories to a scan area such as user mailboxes, RAM, startup objects, operating system backup, and files in the Kaspersky Anti-Virus 6.0 SOS Quarantine folder.

In addition, when you add a folder that contains embedded objects to a scan area, you can edit the recursion To do so, select an object in the corresponding list, open its context menu and use **Include Subfolders** option.

To delete an object, select it from the list (when you do so, the name of the object will be highlighted in gray) and click the **Delete** button. You can temporarily disable scanning for individual objects for any task without deleting them from the list. To do so, uncheck the box beside the object that you do not want scanned.

To start a scan task, click the **Scan** button, or select **Start** from the menu that opens when you click the **Actions** button.

In addition, you can select an object to be scanned with the standard tools of the Windows operating system (for example, in the Explorer program window or on your Desktop, etc.) (see Figure 13). To do so, select the object, open the Windows context menu by right-clicking, and select **Scan for Viruses**.

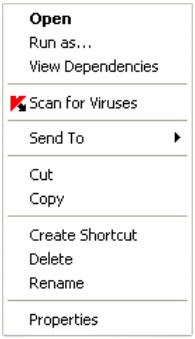


Figure 13. Scanning objects from the Windows context menu

7.3. Creating virus scan tasks

To scan objects on your computer for viruses, you can use built-in scan tasks included with the program and create your own tasks. New scan tasks are created using existing tasks that a template.

To create a new virus scan task:

1. Select the task with the settings closest to those you need, in the **Scan** section of the main program window.
2. Open the context menu by right-clicking on the task name, or click the **Actions** button to the right of the scan object list, and select **Save as...**.
3. Enter the name for the new task in the window that opens and click **OK**. A task with that name will then appear in the list of tasks in the **Scan** section of the main program window.

Warning!

There is a limit to the number of tasks that the user can create. The maximum is four tasks.

The new task is a copy of the one it was based on. You need to continue setting it up by creating an scan object list (see 7.2 on pg. 57), setting up properties that govern the task (see 7.4 on pg. 60), and, if necessary, configuring a schedule (see 6.5 on pg. 53) for running the task automatically.

To rename a created task:

Select the task in the **Scan** section of the main program window. Right-click on the task's name to open the context menu, or click the **Actions** button on the right of the list of scan objects, and select **Rename**.

Enter the new name for the task in the window that opens and click **OK**. The task name will also be changed in the **Scan** section.

To delete a created task:

Select the task in the **Scan** section of the main program window. Right-click on the task's name to open the context menu, or click the **Actions** button on the right of the list of scan objects, and select **Delete**.

You will be asked to confirm that that you want to delete the task. The task will then be deleted from the list of tasks in the **Scan** section.

Warning!

You can only rename and delete tasks that you have created.

7.4. Configuring virus scan tasks

The methods are used to scan objects on your computer are determined by the properties assigned for each task.

To configure task settings:

open application settings window and select the task name in the **Scan** section.

You can use the settings window for each task to:

- Select the security level that the task will use (see 7.4.1 on pg. 60)
- Edit advanced settings:
    - define what file types are to be scanned for viruses (see 7.4.2 on pg. 61)
    - configure task start using a different user profile (see 6.4 on pg. 51)
    - configure advanced scan settings (see 7.4.5 on pg. 67)
- restore default scan settings (see 7.4.3 on pg. 64)
- select an action that the program will apply when it detects an infected or suspicious object (see 7.4.4 on pg. 64)
- create a schedule (see 6.5 on pg. 53) to automatically run tasks.
- In addition, you can configure global settings (see 7.4.6 on pg. 68) for running all tasks.

The following sections examine the task settings listed above in detail.

7.4.1. Selecting a security level

Each virus scan task can be assigned a security level (see Figure 14):

High – the most complete scan of the entire computer or individual disks, folders, or files. You are advised to use this level if you suspect that a virus has infected your computer.

Recommended – Kaspersky Lab experts recommend this level. The same files will be scanned as for the **High** setting, except for email databases.

Low – level with settings that let you comfortably use resource-intensive applications, since the scope of files scanned is reduced.

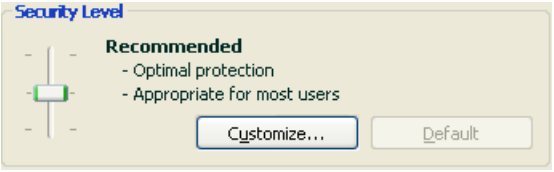


Figure 14. Selecting a virus scan security level

By default, file scanning level is set to **Recommended**.

You can raise or lower the scan security level by selecting the level you want or changing the settings for the current level.

To edit the security level:

Adjust the sliders. By adjusting the security level, you define the ratio of scan speed to the total number of files scanned: the fewer files are scanned for viruses, the higher the scan speed.

If none of the file security levels listed meet your needs, you can customize the scan settings. To do so, select the level that is closest to what you need as a starting point and edit its settings. If you do so, the level will be renamed as **Custom**.

To modify the settings for a security level:

click the **Settings** button in the task settings window. Edit the scan settings in the window that opens and click **OK**.

As a result, a fourth security level will be created, **Custom settings**, which contains the scan settings that you configured.

7.4.2. Specifying the types of objects to scan

By specifying the types of objects to scan, you establish which file formats, files sizes, and drives will be scanned for viruses when this task runs.

The file types scanned are defined in the **File types** section (see Figure 15). Select one of the three options:

- **Scan all files**. With this option, all objects will be scanned without exception.
- **Scan programs and documents (by content)**. If you select this group of programs, only potentially infected files will be scanned – files into which a virus could imbed itself.

Note:
There are files in which viruses cannot insert themselves, since the contents of such files does not contain anything for the virus to hook onto. An example would be *.txt* files.

And vice versa, there are file formats that contain or can contain executable code. Examples would be the formats *.exe*, *.dll*, or *.doc*. The risk of insertion and activation of malicious code in such files is fairly high.

Before searching for viruses in an object, its internal header is analyzed for the file format (txt, doc, exe, etc.).

Scan programs and documents (by extension). In this case, the program will only scan potentially infected files, and in doing so, the file format will be determined by the filename's extension. Using the link, you can review a list of file extensions that are scanned with this option (see A.1 on pg. 149).

Tip:
Do not forget that someone could send a virus to your computer with the extension .txt that is actually an executable file renamed as a .txt file. If you select the **Scan programs and documents (by extension)** option, the scan would skip such a file. If the **Scan programs and documents (by contents)** is selected, the program will analyze file headers, discover that the file is an .exe file, and thoroughly scan it for viruses.

In the **Productivity** section, you can specify that only new files and those that have been modified since the previous scan or new files should be scanned for viruses. This mode noticeably reduces scan time and increases the program's performance speed. To do so, you must check **Scan only new and changed files**. This mode extends to simple and compound files.

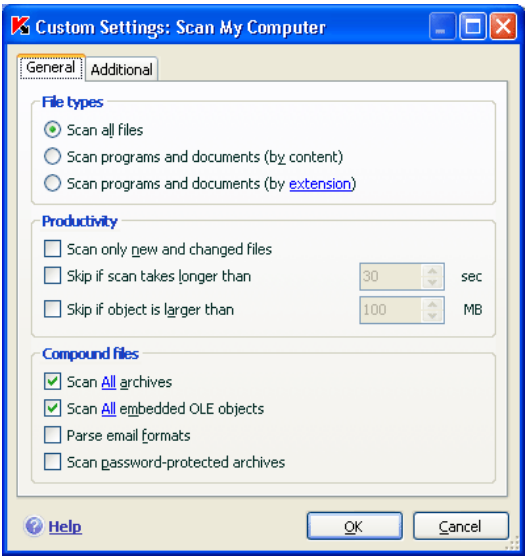


Figure 15. Configuring scan settings

You can also set time and file size limits for scanning in the **Productivity** section.

Skip if scan takes longer than... secs. Check this option and enter the maximum scan time for an object. If this time is exceeded, this object will be removed from the scan queue.

Skip if object is larger than…MB. Check this option and enter the maximum size for an object. If this size is exceeded, this object will be removed from the scan queue.

In the **Compound files** section, specify which compound files will be analyzed for viruses:

Scan All/Only New archives – scan .rar, .arj, .zip, .cab, .lha, .jar, and .ice archives.

Warning!

Kaspersky Anti-Virus 6.0 SOS does not delete compressed file formats that it does not support (for example, .ha, .uue, .tar) automatically, even if you select the option of automatically curing or deleting if the objects cannot be cured.

To delete such compressed files, click the Delete archives link in the dangerous object detection notification. This notification will be displayed on the screen after the program begins processing objects detected during the scan. You can also delete infected archives manually.

☑ **Scan all/only new embedded OLE objects**– scan objects imbedded in files (for example, Excel spreadsheets or a macro imbedded in a Microsoft Word file, email attachments, etc.).

You can select and scan all files or only new ones for each type of compound file. To do so, use the link next to the name of the object. It changes its value when you left-click on it. If the **Productivity** section has been set up only to scan new and modified files, you will not be able to select the type of compound files to be scanned.

☑ **Parse email formats** – scan email files and email databases. If this checkbox is enabled, Kaspersky Anti-Virus 6.0 SOS dissects the mail format file and analyzes each component of the e-mail (body, attachments, etc.) for viruses. If this box is not checked, the file format file will be scanned as a single object.

Please note, when scanning password-protected email databases:

- Kaspersky Anti-Virus 6.0 SOS detects malicious code in Microsoft Office Outlook 2000 databases but does not disinfect them;
- the application does not support scans for malicious code in Microsoft Office Outlook 2003 protected databases.

☑ **Scan password-protected archives** – scans password protected archives. With this feature, a window will request a password before scanned archived objects. If this box is not checked, password-protected archives will be skipped.

7.4.3. Restoring default scan settings

When configuring scan task settings, you can always return to the recommended settings. Kaspersky Lab considers them to be optimal and has combined them in the **Recommended** security level.

To restore the default scan settings:

1. Select the task name in the **Scan** section of the main window and use the Settings link to open the task settings window.
2. Click the **Default** button in the **Security Level** section.

7.4.4. Selecting actions for objects

If a file is found to be infected or suspicious during a scan, the program's next steps depend on the object status and the action selected.

One of the following statuses can be assigned to the object after the scan:

- Malicious program status (for example, *virus, Trojan*).
- *Potentially infected*, when the scan cannot determine whether the object is infected. This means that the code in the file contains a section of code that resembles a known but modified virus, or is reminiscent of the structure of a virus sequence.

By default, all infected files are disinfected, and if they are potentially infected, they are sent to Quarantine.

To edit an action for an object:

select the task name in the **Scan** of the main program window and use the Settings link to open the task settings window. The possible responses are displayed in the appropriate sections (see Figure 16).

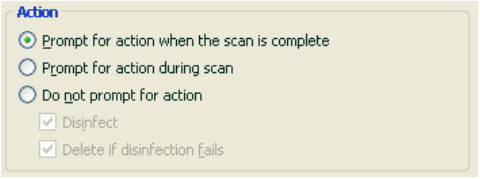

Action
Prompt for action when the scan is complete
Prompt for action during scan
Do not prompt for action
Disinfect
Delete if disinfection fails

Figure 16. Selecting actions for dangerous objects

If the action selected was	When it detects a malicious or potentially infected object
Prompt for action when the scan is complete	The program does not process the objects until the end of the scan. When the scan is complete, the statistics window will pop up with a list of objects detected, and you will be asked if you want to process the objects.
Prompt for action during the scan	The program will issue a warning message containing information about what malicious code has infected or potentially infected the file, and gives you the choice of one of the following actions.
Do not prompt for action	The program records

If the action selected was	When it detects a malicious or potentially infected object
	information about objects detected in the report without processing them or notifying the user. You are advised not to use this feature, since infected and potentially infected objects stay on your computer and it is practically impossible to avoid infection.
Do not prompt for action **Disinfect**	The program attempts to treat the object detected without asking the user for confirmation. If disinfection fails, the file will be assigned the status of *potentially infected*, and it will be moved to Quarantine (see 10.1 on pg. 87). Information about this is recorded in the report (see 10.3 on pg. 93). Later you can attempt to disinfect this object.
Do not prompt for action **Disinfect** **Delete if disinfection fails**	The program attempts to treat the object detected without asking the user for confirmation. If the object cannot be disinfected, it is deleted.
Do not prompt for action **Disinfect** **Delete**	The program automatically deletes the object

Before treating or deleting an object, Kaspersky Anti-Virus 6.0 SOS creates a backup copy of it, and sends it to Backup (see 10.2 on pg. 91) in case the object needs to be restored or an opportunity arises later to treat it.

7.4.5. Additional virus scan settings

In addition to configuring the basic virus scan settings, you can also use advanced settings (see Figure 17):

Enable iChecker technology – uses technology that can increase the scan speed by excluding certain objects from the scan. An object is excluded from the scan using a special algorithm that takes into account the release date of the threat signatures, the date the object was last scanned, and modifications to scan settings.

For example, you have an archived file that the program scanned and assigned the status of *not infected*. The next time, the program will skip this archive, unless it has been modified or the scan settings have been changed. If the structure of the archive has changed because a new object has been added to it, if the scan settings have changed, or if the threat signatures have been updated, the program will scan the archive again.

There are limitations to iChecker™: it does not work with large files and only applies to objects with a structure that Kaspersky Anti-Virus 6.0 SOS recognizes (for example, *.exe, .dll, .lnk, .ttf, .inf, .sys, .com, .chm, .zip, .rar*).

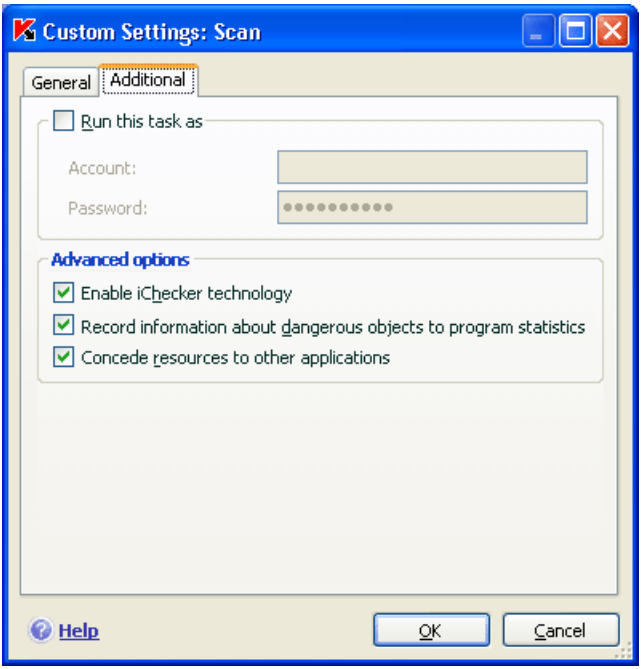


Figure 17. Advanced scan settings

Record information about dangerous objects to program statistics – save information about detected dangerous objects to general program statistics and display a list of threats detected during the scan on the **Detected** tab of the report (see 10.3.2 on pg. 96) window. If this option is disabled the information about dangerous objects will not be displayed in the report and it will be impossible to process data.

Concede resources to other applications – pause that virus scan task if the processor is busy with other applications.

7.4.6. Setting up global scan settings for all tasks

Each scan task is executed according to its own settings. By default, the tasks created when you install the program on your computer use the settings recommended by Kaspersky Lab.

You can configure global scan settings for all tasks. You will use a set of properties used to scan an individual object for viruses as a starting point.

To assign global scan settings for all tasks:

1. Select the **Scan** section in the left-hand part of the main program window and click Settings.
2. In the settings window that opens, configure the scan settings: Select the security level (see 7.4.1 on pg. 60), configure advanced level settings, and select an action (see 7.4.4 on pg. 64) for objects.
3. To apply these new settings to all tasks, click the **Apply** button in the **Other task settings** section. Confirm the global settings that you have selected in the popup dialogue box.

CHAPTER 8. TESTING KASPERSKY ANTI-VIRUS 6.0 SOS FEATURES

After installing and configuring Kaspersky Anti-Virus 6.0 SOS, we recommend that you verify that settings and program operation are correct using a test virus and variations of it.

8.1. The EICAR test virus and its variations

The test virus was specially developed by eicar (The European Institute for Computer Antivirus Research) for testing antivirus functionality.

The test virus IS NOT A VIRUS and does not contain program code that could damage your computer. However, most antivirus programs will identify it as a virus.

Never use real viruses to test the functionality of an antivirus!

You can download the test virus from the official **EICAR** website: http://www.eicar.org/anti_virus_test_file.htm.

The file that you downloaded from the **EICAR** website contains the body of a standard test virus. In the course of a scan it will be detected by Kaspersky Anti-Virus 6.0 SOS, classified as a **virus**, and treated as any other object of the same type.

To test the reactions of Kaspersky Anti-Virus 6.0 SOS when different types of objects are detected, you can modify the contents of the standard test virus by adding one of the prefixes in the table shown here.

Prefix	Test virus status	Corresponding action when the application processes the object
No prefix, standard test	The file contains a test virus. You cannot disinfect	The application will identify the object as malicious and not subject to treatment and will

Prefix	Test virus status	Corresponding action when the application processes the object
virus	the object.	delete it.
CORR-	Corrupted.	The application could access the object but could not scan it, since the object is corrupted (for example, the file structure is breached, or it is an invalid file format).
SUSP- WARN-	The file contains a test virus (modification). You cannot disinfect the object.	This object is a modification of a known virus or an unknown virus. At the time of detection, the threat signature databases do not contain a description of the procedure for treating this object. The application will place the object in Quarantine to be processed later with updated threat signatures.
ERRO-	Processing error.	An error occurred while processing the object: the application cannot access the object being scanned, since the integrity of the object has been breached (for example, no end to a multivolume archive) or there is no connection to it (if the object is being scanned on a network drive).
CURE-	The file contains a test virus. It can be cured. The object is subject to disinfection, and the text of the body of the virus will change to CURE.	The object contains a virus that can be cured. The application will scan the object for viruses, after which it will be fully cured.

Prefix	Test virus status	Corresponding action when the application processes the object
DELE–	The file contains a test virus. You cannot disinfect the object.	This object contains a virus that cannot be disinfected or is a Trojan. The application deletes these objects.

The first column of the table contains the prefixes that need to be added to the beginning of the string for a standard test virus. The second column describes the status and reaction of Kaspersky Anti-Virus 6.0 SOS to various types of test virus. The third column contains information on objects with the same status that the application has processed.

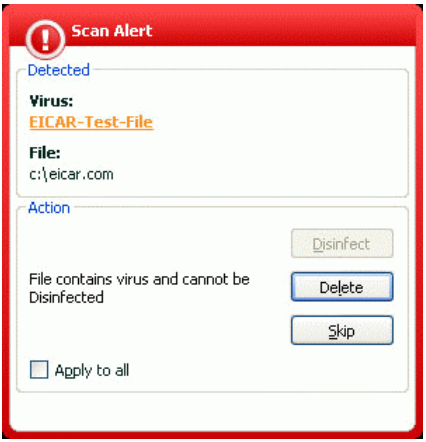
Values in the anti-virus scan settings determine the action taken on each of the objects.

8.2. Testing Virus scan tasks

To test Virus scan tasks:

1. Create a folder on a disk, copy to it the test virus downloaded from the organization's official website (see 8.1 on pg. 70), and the modifications of the test virus that you created.
2. Create a new virus scan task (see 7.3 on pg. 59) and select the folder containing the set of test viruses as the objects to scan (see 7.2 on pg. 57).
3. Allow all events to be logged so the report file retains data on corrupted objects and objects not scanned because of errors. To do so, check **Log non-critical events** in the report settings window.
4. Run the virus scan task (see 7.1 on pg. 57).

When you run a scan, as suspicious or infected objects are detected, notifications will be displayed on screen will information about the objects, prompting the user for the next action to take:



This way, by selecting different options for actions, you can test Kaspersky Anti-Virus 6.0 SOS reactions to detecting various object types.

You can view details on virus scan task performance in the report on the component.

CHAPTER 9. PROGRAM UPDATES

Because new viruses, Trojans, and malicious software emerge daily, it is important to regularly update the application to make sure you are using the latest threat signatures.

Updating the application involves the following components being downloaded and installed on your computer:

- **Threat signatures**

  Information on your computer is protected using a database containing threat signatures. They are used by the virus scan task to search for and disinfect harmful objects on your computer. The signatures are added to every hour, with records of new threats and methods to combat them. Therefore, it is recommended that they are updated on a regular basis.

  Previous versions of Kaspersky Lab applications have supported *standard* and *extended* database sets. Each database dealt with protecting your computer against different types of dangerous objects. In Kaspersky Anti-Virus 6.0 SOS you don't need to worry about selecting the appropriate threat signature set. Now our products use an threat signatures that protect you from malicious and potentially dangerous objects of various types.

- **Application modules**

  In addition to the signatures, you can upgrade the modules for Kaspersky Anti-Virus 6.0 SOS. New application updates appear regularly.

The main update source for Kaspersky Anti-Virus 6.0 SOS is Kaspersky Lab's update servers. To download available updates from the update servers, your computer must be connected to the Internet.

If you do not have access to Kaspersky Lab's update servers (for example, your computer is not connected to the Internet), you can call the Kaspersky Lab main office at +7 (495) 797-87-00, +7 (495) 645-79-39, or +7 (495) 956-70-00 to request contact information for Kaspersky Lab partners, who can provide you with zipped updates on floppy disks or CDs.

Updates can be downloaded in one of the following modes:

- *Automatically*. Kaspersky Anti-Virus 6.0 SOS checks the update source for updates at specified intervals. During virus outbreaks, the check frequency may increase, and decrease when they are gone. If it finds new

updates, Anti-Virus downloads them and installs them on the computer. This is the default setting..

- *By schedule*. Updating is scheduled to start at a specified time.
- *Manually*. With this option, you launch the Updater manually.

During updating, the application compares the threat signatures and application modules on your computer with the versions available on the update server. If your computer has the latest version of the signatures and application modules, you will see a notification window confirming that your computer's threat signatures and application modules are up-do-date. If the signatures and modules on your computer differ from those on the update server, only the missing part of the updates will be downloaded. The Updater does not download threat signatures and modules that you already have, which significantly increases download speed and saves Internet traffic.

Before updating threat signatures, Kaspersky Anti-Virus 6.0 SOS creates backup copies of them, that can be used if a rollback (see 9.2 on pg. 76) is required. If, for example, the update process corrupts the threat signatures and leaves them unusable, you can easily roll back to the previous version and try to update the signatures later.

You can distribute the updates retrieved to a local source while updating the application (see 9.4.4 on pg. 83). This feature allows you to update databases and modules used by 6.0 applications on networked computers to conserve bandwidth.

9.1. Starting the Updater

You can begin the update process at any time. It will run from the update source that you have selected (see 9.4.1 on pg. 78).

You can start the Updater from:

- the context menu (see 4.2 on pg. 37).
- from the program's main window (see 4.3 on pg. 38)

To start the Updater from the shortcut menu:

1. Right click the application icon in the system tray to open the shortcut menu.
2. Select **Update**.

To start the Updater from the main program window:

1. Select **Update** in the **Service** section.

2. Click the **Update now!** Button in the right panel of the main window or use the button on the status bar.

The update progress will be displayed in a special window, which can be hidden by clicking **Close**. The update will continue with the window hidden.

Note that updates are distributed to the local source during the update process, provided that this service is enabled (see 9.4.4 on pg. 83).

9.2. Rolling back to the previous update

Every time you start the Updater, Kaspersky Anti-Virus 6.0 SOS creates a backup copy of the current threat signatures before it starts downloading updates. This way you can return to using the previous version of signatures if an update fails.

To rollback to the previous version of threat signatures:

1. Select the **Update** component in the **Service** section of the main program window.
2. Click the **Rollback** button in the right panel of the main program window.

9.3. Creating update tasks

Kaspersky Anti-Virus 6.0 SOS has a built-in update task for updating program modules and threat signatures. You can also create your own update tasks with various settings and start schedules.

For example, you installed Kaspersky Anti-Virus 6.0 SOS on a laptop that you use at home and at your office. At home, you update the program from the Kaspersky Lab update servers, and at the office, from a local folder that stores the updates you need. Use two different tasks to avoid having to change update settings every time you change locations.

To create an advanced update task:

1. Select **Update** from the **Service** section of the main program window, open the context menu by right-clicking, and select **Save as**.
2. Enter the name for the task in the window that opens and click **OK**. A task with that name will then appear in the **Service** section of the main program window.

Warning!

Kaspersky Anti-Virus 6.0 SOS has a limit to the number of update tasks that the user can create. The maximum is two tasks.

The new task inherits all the properties of the task it is based on, except for the schedule settings. The default automatic scan setting for the new task is disabled.

After creating the task, configuring advanced settings: specify the update source (see 9.4.1 on pg. 77), network connection settings (see 9.4.3 on pg. 82), and if necessary, enable tasks under another profile (see 6.4 on pg. 51) and configure the schedule (see 6.5 on pg. 53).

To rename a task:

Select the task from the **Service** section of the main program window, open the context menu by right-clicking, and select **Rename**.

Enter the new name for the task in the window that opens and click **OK**. The task name will then be changed in the **Service** section.

To delete a task:

Select the task from the **Service** section of the main program window, open the context menu by right-clicking, and select **Rename**.

Confirm that you want to delete the task in the confirmation window. The task will then be deleted from the list of tasks in the **Service** section.

Warning!

You can only rename and delete tasks that you have created.

9.4. Configuring update settings

The Updater settings specify the following parameters:

- The source from which the updates are downloaded and installed (see 9.4.1 on pg. 78)
- Application update mode and the specific items updated (cf. Section 9.4.2, p. 80);
- Update frequency if updates run on schedule (cf. Section 6.5, p. 53);
- Account under which the update will run (cf. 6.4, Section , p. 51);
- The requirement to copy downloaded updates to a local directory (cf. Section 9.4.4, p. 83).

- What actions are to be performed after updating is complete (see 9.4.5 on pg. 85)

The following sections examine these aspects in detail.

9.4.1. Selecting an update source

The *update source* is some resource, containing updates for the threat signatures and Kaspersky Anti-Virus 6.0 SOS application modules.

You can use the following as update sources:

- *Administration Server* – a centralized update repository located on the Kaspersky Administration Kit Administration Server (for more details, see the Administrator User's Guide for Kaspersky Administration Kit).
- *Kaspersky Lab's update servers* – special web sites containing available updates for the threat signatures and application modules for all Kaspersky Lab products.
- *FTP or HTTP server or local or network folder* – local server or folder that contains the latest updates.

If you cannot access Kaspersky Lab's update servers (for example, you have no Internet connection), you can call the Kaspersky Lab main office at +7 (495) 797-87-00, +7 (495) 645-79-39, or +7 (495) 956-70-00 to request contact information for Kaspersky Lab partners, who can provide zipped updates on floppy disks or CDs.

Warning!

When requesting updates on removable media, please specify whether you want to have the updates for application modules as well.

You can copy the updates from a disk and upload them to a FTP or HTTP site, or save them in a local or network folder.

Select the update source on the **Update source** tab (see Figure 18).

By default, the updates are downloaded from Kaspersky Lab's update servers. The list of addresses which this item represents cannot be edited. When updating, Kaspersky Anti-Virus 6.0 SOS calls this list, selects the address of the first server, and tries to download files from this server. If updates cannot be downloaded from the first server, the application tries to connect to each of the servers in turn until it is successful.

To download updates from another FTP or HTTP site:

1. Click **Add.**

2. In the **Select Update Source** dialog box, select the target FTP or HTTP site or specify the IP address, character name, or URL address of this site in the **Source** field. When an ftp site is selected as an update source, authentication settings may be entered in the URL of the server as ftp://user:password@server.

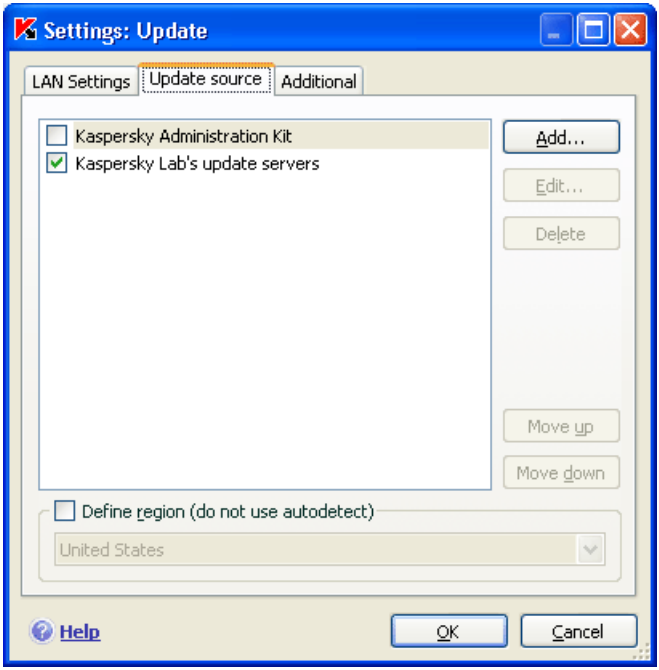


Figure 18. Selecting an update source

Warning!

If you selected a resource outside the LAN for updates, you will need an Internet connection to retrieve the updates.

To update from a local folder:

1. Click **Add.**
2. In the **Select Update Source** dialog box, select a folder or specify the full path to this folder in the **Source** field.

Kaspersky Anti-Virus 6.0 SOS adds new update sources at the top of the list, and automatically enables the source, by checking the box beside the source name.

If several resources are selected as update sources, the application tries to connect to them one after another, starting from the top of the list, and retrieves the updates from the first available source. You can change the order of sources in the list using the **Move up** and **Move down** buttons.

To edit the list, use the **Add**, **Edit** and **Remove** buttons. The only source you cannot edit or delete is the one labeled Kaspersky Lab's update servers.

If you use Kaspersky Lab's update servers as the update source, you can select the optimal server location for downloading updates. Kaspersky Lab has servers in several countries. Choosing the Kaspersky Lab update server closest to you will save you time and download updates faster.

To choose the closest server, check **Define region (do not use autodetect)** and select the country closest to your current location from the dropdown list. If you check this box, updates will run taking the region selected in the list into account. This checkbox is deselected by default and information about the current region from the operating system registry is used.

9.4.2. Selecting an update method and what to update

When configuring updating settings, it is important to define what will be updated and what update method will be used.

Update objects (see Figure 19) are the components that will be updated:

- threat signatures
- program modules

The threat signatures are always updated, whereas the application modules are updated only if the corresponding mode is selected.

Figure 19. Selecting update objects

If you want to download and install updates for program modules:

Check **Update program modules** in the **Update Settings** dialog box of the **Update** service.

If there is an application module update on the update source, the application will download the required updates and apply them after the

system is restarted. Downloaded module updates will not be installed until the computer is restarted.

If the next program update occurs before the computer is restarted and the previously downloaded application module updates are installed, threat signatures only will be updated.

Update method (see Figure 20) defines how the Updater is started. You can select one of these methods in **Run mode** section:

Automatically. Kaspersky Anti-Virus 6.0 SOS checks the update source for updates at specified intervals. If it finds new updates, Anti-Virus downloads them and installs them on the computer. This mode is used by default.

If a network resource is specified as an update source, Kaspersky Anti-Virus 6.0 SOS tries to launch updating after a certain amount of time has elapsed as specified in the previous update package. If a local folder is selected as an update source, the application tries to download the updates from the local folder at a frequency specified in the update package that was downloaded during the last updating. This option allows Kaspersky Lab to regulate the updating frequency in case of virus outbreaks and other potentially dangerous situations. Your application will receive the latest updates for the threat signatures and software modules in a timely manner, thus excluding the possibility for malicious software to penetrate your computer.

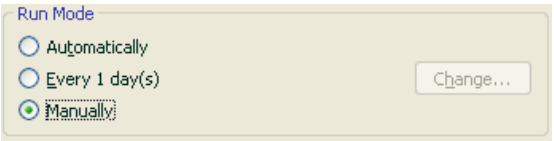


Figure 20. Selecting an update run mode

By schedule. Updating is scheduled to start at a specified time. By default, scheduled updates will occur every 2 hours. To edit the default schedule, click the **Change...** button near the mode title and make the necessary changes in the window that opens (for more details, see 6.5 on pg. 53).

Manually. With this option, you start the Updater manually. Kaspersky Anti-Virus 6.0 SOS notifies you when it needs to be updated:

- A popup message, informing you that updating is required, appears above the application icon in the system tray (if notices are enabled; see 10.8 on pg. 105)
- Secondly, a recommendation, that the application needs updating, appears in the comments and tips section of the main program window (see 4.3 on pg. 38)

9.4.3. Configuring connection settings

If you set up the program to retrieve updates from Kaspersky Lab's update servers, or from other FTP or HTTP sites, you are advised to first check your connection settings.

All settings are grouped on a special tab – **LAN Settings**(see Figure 21).

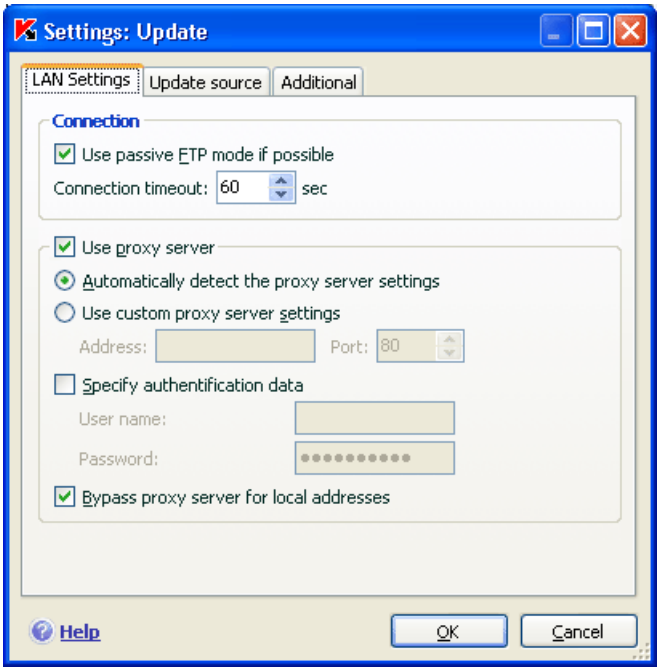


Figure 21. Configuring network update settings

Check ☑ **Use passive FTP mode if possible** if you download the updates from an FTP server in passive mode (for example, through a firewall). If you are working in active FTP mode, clear this checkbox.

In the **Connection timeout… (sec)** field, assign the time allotted for connection with the update server. If the connection fails, once this time has elapsed the program will attempt to connect to the next update server. This continues until a connection is successfully made or until all the available update servers are attempted.

Check ☑ **Use proxy server** if you are using a proxy server to access the Internet and, if necessary, select the following settings:

- Select the proxy server settings that will be used during updating:

  Automatically detect the proxy server settings. If you select this option, the proxy settings are detected automatically using WPAD (Web Proxy Auto-Discovery Protocol). If this protocol cannot detect the address, Kaspersky Anti-Virus 6.0 SOS will use the proxy server settings specified in Microsoft Internet Explorer.

  Use custom proxy settings – Use a proxy that is different from that specified in the browser connection settings. In the **Address** field, enter either the IP address or the symbolic name of the proxy server, and specify the number of the proxy port in the Port field.

- Specify whether authentication is required on the proxy server. *Authentication* is the process of verifying user registration data for access control purposes.

  If authentication is required to connect to the proxy server, check **Specify authentification data** and specify the username and password in the fields below. In this event, first NTLM authentication and then BASIC authentication will be attempted.

  If this checkbox is not selected or if the data is not entered, NTLM authentication will be attempted using the user account used to start the update (see 6.4 on pg. 51).

  If the proxy server requires authentication and you did not enter the username and password or the data specified were not accepted by the proxy server for some reason, a window will pop up when updates start, asking for a username and password for authentication. If authentication is successful, the username and password will be used when the program is next updated. Otherwise, the authentication settings will be requested again.

To avoid using a proxy when the update source is a local folder, select the **Bypass proxy server for local addresses**.

This feature is unavailable under Windows 9X/NT 4.0. However, the proxy server is by default not used for local addresses.

9.4.4. Update distribution

The update copying feature makes it possible to optimize the load on your business's network. Updates are copied in two stages:

1. One of the computers on the network retrieves an application and threat signature update package from the Kaspersky Lab web servers or from

another web resource hosting a current set of updates. The updates retrieved are placed in a public access folder.

2. Other computers on the network access the public access folder to retrieve application updates.

To enable update distribution, select the **Update distribution folder** checkbox on the **Additional** tab (see Figure 22), and in the field below, specify the shared folder where updates retrieved will be placed. You can enter the path manually or selected in the window that opens when you click **Browse**. If the checkbox is selected, updates will automatically be copied to this folder when they are retrieved.

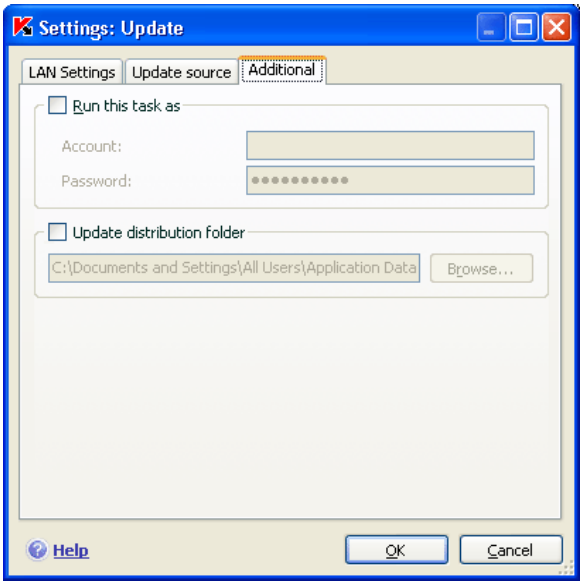


Figure 22. Copy updates tool settings

Note that Kaspersky Anti-Virus 6.0 SOS only retrieves update packages for v. 6.0 applications from the Kaspersky Lab update servers. We recommend copying updates for other Kaspersky Lab applications through Kaspersky Administration Kit.

If you want other computers on the network to update from the folder that contains updates copied from the Internet, you must take the following steps:

1. Grant public access to this folder.
2. Specify the shared folder as the update source on the network computers in the Updater settings.

9.4.5. Actions after updating the program

Every threat signature update contains new records that protect your computer from the latest threats.

Kaspersky Lab recommends that you scan *quarantined objects* and *startup objects* each time after the database is updated.

Why these objects should be scanned?

The quarantine area contains objects that have been flagged by the program as suspicious or possibly infected (see 10.1 on pg. 87). Using the latest version of the threat signatures, Kaspersky Anti-Virus 6.0 SOS may be able to identify the threat and eliminate it.

By default, the application scans quarantined objects after each threat signature update. You are also advised to periodically view the quarantined objects because their statuses can change after several scans. Some objects can then be restored to their previous locations, and you will be able to continue working with them.

To disable scans of quarantined objects, uncheck **Rescan Quarantine** in the **Action after update** section.

Startup objects are critical for the safety of your computer. If one of them is infected with a malicious application, this could cause an operating system startup failure. Kaspersky Anti-Virus 6.0 SOS has a built-in scan task for startup objects (see Chapter 7 on pg. 56). You are advised to set up a schedule for this task so that it is launched automatically after each threat signature update (see 6.5 on pg. 53).

CHAPTER 10. ADVANCED OPTIONS

Kaspersky Anti-Virus 6.0 SOS has other features that expand its functionality.

The program places some objects in special storage areas, in order to ensure maximum protection of data with minimum losses.

- Backup contains copies of objects that Kaspersky Anti-Virus 6.0 SOS has changed or deleted (see 10.2 on pg. 91). If any object contained information that was important to you and could not be fully recovered during anti-virus processing, you can always restore the object from its backup copy.
- Quarantine contains potentially infected objects that could not be processed using the current threat signatures (see 10.1 on pg. 87).

It is recommended that you periodically examine the list of stored objects. Some of them may already be outdated, and some may have been restored.

The advanced options include a number of diverse useful features. For example:

- Technical Support provides comprehensive assistance with Kaspersky Anti-Virus 6.0 SOS (see 10.6 on pg. 102). Kaspersky provides you with several channels for support, including on-line support and a questions and comments forum for program users.
- The Notifications feature sets up user notifications about key events for Kaspersky Anti-Virus 6.0 SOS (see 10.8 on pg. 105). These could be either events of an informative nature, or critical errors that must be eliminated immediately.
- Access Restriction to program use provides protection against external control of application services and ensures the restriction of rights of other users on your computer for several actions with Kaspersky Anti-Virus (see 10.8.2 on pg. 110). For example, changing the level of protection can significantly influence information security on your computer.
- License Key Manager can obtain detailed information on the license used, activate your copy of the program, and manage license key files (see 10.5 on pg. 100).

The program also provides a Help section (see 10.4 on pg. 99) and detailed reports (see 10.3 on pg. 93) on the operation of all virus scan tasks.

You can also change the appearance of Kaspersky Anti-Virus 6.0 SOS and can customize the program interface (see 10.7 on pg. 103).

The following sections discuss these features in more detail.

10.1. Quarantine for potentially infected objects

Quarantine is a special storage area that holds potentially infected objects.

Potentially infected objects are objects that are suspected of being infected with viruses or modifications of them.

Why *potentially infected*? This are several reasons why it is not always possible to determine whether an object is infected:

- The code of the object scanned resembles a known threat but is partially modified.

  Threat signatures contain threats that have already been studied by Kaspersky Lab. If a malicious program is modified by a hacker but these changes have not yet been entered into the signatures, Kaspersky Anti-Virus 6.0 SOS classifies the object infected with this changed malicious program as being potentially infected, and indicates what threat this infection resembles.

- The code of the object detected is reminiscent in structure of a malicious program, although nothing similar is recorded in the threat signatures.

  It is quite possible that this is a new type of threat, so Kaspersky Anti-Virus 6.0 SOS classifies the object as a potentially infected object.

The *heuristic code* analyzer detects potential viruses. This mechanism is fairly effective and very rarely produces false positives.

A potentially infected object can be detected and placed in quarantine in the course of a virus scan.

You can place an object in quarantine by clicking **Quarantine** in the notification that pops up when a potentially infected object is detected.

When you place an object in Quarantine, it is moved, not copied. The object is deleted from the disk or email and is saved in the Quarantine folder. Files in Quarantine are saved in a special format and are not dangerous.

10.1.1. Actions with quarantined objects

The total number of objects in Quarantine is displayed by selecting the **Data files** item in the **Service** area of the application's main window. In the right-hand part of the screen the *Quarantine* section displays:

- the number of potentially infected objects detected during Kaspersky Anti-Virus 6.0 SOS operation;
- the current size of Quarantine.

Here you can delete all objects in the quarantine with the **Clear** button. Note that in doing so the Backup files and report files will also be deleted.

To access objects in Quarantine:

left-click in any part of the **Quarantine** section.

You can take the following actions on the **Quarantine** tab (see Figure 23):

- Move a file to Quarantine that you suspect is infected but the program did not detect. To do so, click **Add** and select the file in the standard selection window. It will be added to the list with the status *added by user*.

  If a file is quarantined manually and after a subsequent scan turns out to be uninfected, its status after the scan will not immediately be changed to *OK*. This will only occur if the scan took place after a certain amount of time (at least three days) after quarantining the file.

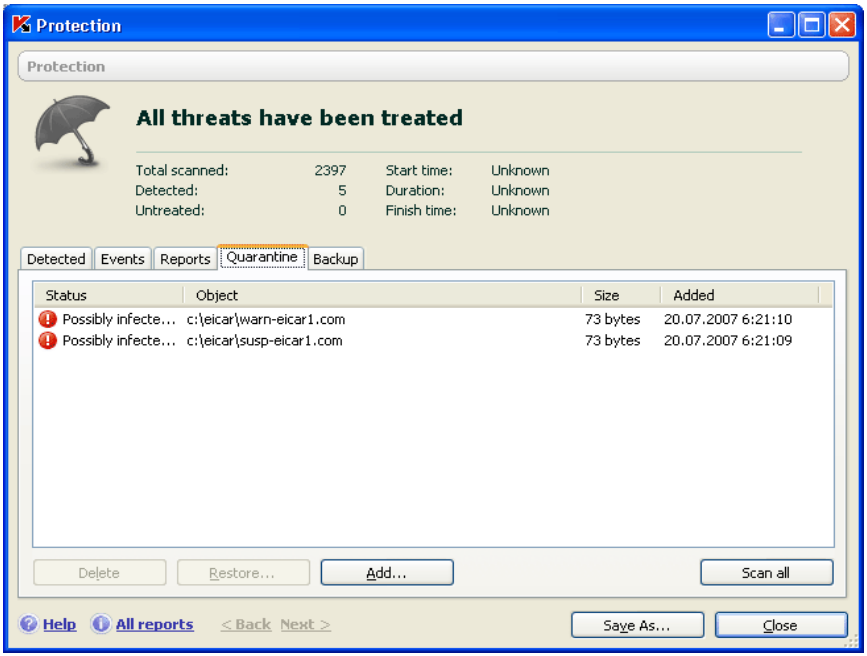


Figure 23. List of quarantined objects

- Scan and disinfect all potentially infected objects in Quarantine using the current threat signatures by clicking, click **Scan all**.

  After scanning and disinfecting any quarantined object, its status may change to *infected, potentially infected, false positive, OK,* etc.

  The *infected* status means that the object has been identified as infected but it could not be treated. You are advised to delete such objects.

  All objects marked *false positive* can be restored, since their former status as *potentially infected* was not confirmed by the program once scanned again.

- Restore the files to a folder selected by the user or their original folder prior to Quarantine (default). To restore an object, select it from the list and click **Restore**. When restoring objects from archives, email databases, and email format files placed in Quarantine, you must also select the directory to restore them to.

> Tip:
> We recommend that you only restore objects with the status *false positive, OK,* and *disinfected*, since restoring other objects could lead to infecting your computer.

- Delete any quarantined object or group of selected objects. Only delete objects that cannot be disinfected. To delete the objects, select them in the list and click **Delete**.

10.1.2. Setting up Quarantine

You can configure the settings for the layout and operation of Quarantine, specifically:

- Set up automatic scans for objects in Quarantine after each threat signature update (for more details, see 9.4.4 on pg. 83).

> Warning!
> The program will not be able to scan quarantined objects immediately after updating the threat signatures if you are accessing the Quarantine area.

- Set the maximum Quarantine storage time.

  The default storage time 30 days, at the end of which objects are deleted. You can change the Quarantine storage time or disable this restriction altogether.

To do so:

1. Open the Kaspersky Anti-Virus 6.0 SOS settings window by clicking Settings in the main program window.
2. Select **Data files** from the settings tree.
3. In the **Quarantine & Backup** section (see Figure 24), enter the length of time after which objects in Quarantine will be automatically deleted. Alternately, uncheck the checkbox to disable automatic deletion.

Figure 24. Configuring the Quarantine storage period

10.2. Backup copies of dangerous objects

Sometimes when objects are disinfected their integrity is lost. If a disinfected file contains important information which is partially or fully corrupted, you can attempt to restore the original object from a backup copy.

A **backup copy** is a copy of the original dangerous object that is created before the object is disinfected or deleted. It is saved in Backup.

Backup is a special storage area that contains backup copies of dangerous objects. Files in backup are saved in a special format and are not dangerous.

10.2.1. Actions with backup copies

The total number of backup copies of objects in Backup is displayed in the **Data files** in the **Service** section of the application's main window. In the right-hand part of the screen the *Backup* section displays:

- the number of backup copies of objects created by Kaspersky Anti-Virus 6.0 SOS
- the current size of Backup.

Here you can delete all the copies in Backup with the **Clear** button. Note that in doing so the Quarantine objects and report files will also be deleted.

To access dangerous object copies:

left-click in any part of the **Backup** section.

A list of backup copies is displayed in the Backup tab (see Figure 25). The following information is displayed for each copy: the path and filename of the object, the status of the object assigned by the scan, and its size.

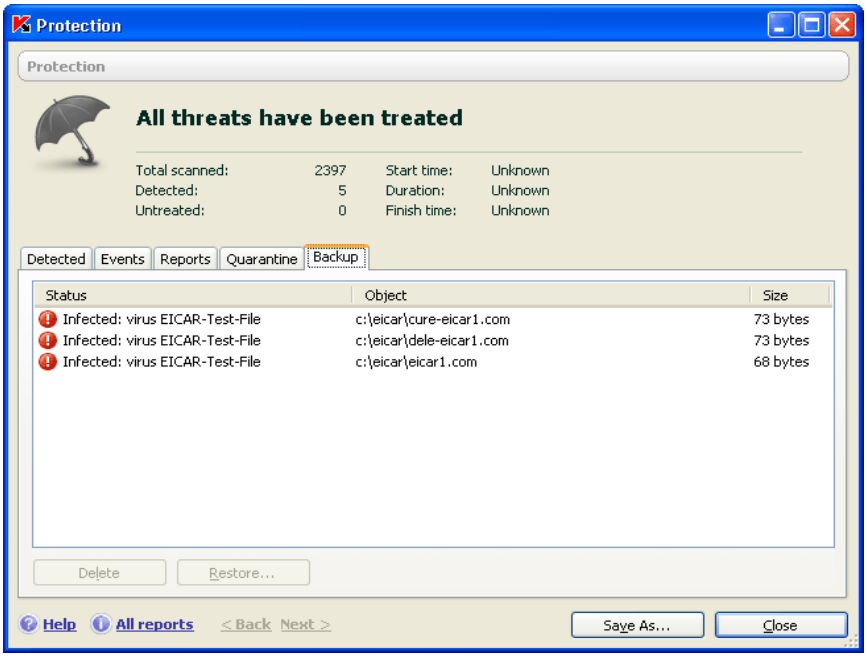


Figure 25. Backup copies of deleted or disinfected objects

You can restore selected copies using the **Restore** button. The object is restored from Backup with the same name that it had prior to disinfection.

If there is an object in the original location with that name (this is possible if a copy was made of the object being restored prior to disinfection), a warning will be given. You can change the location of the restored object or rename it.

You are advised to scan backup objects for viruses immediately after restoring them. It is possible that with updated signatures you will be able to disinfect it without losing file integrity.

You are advised **not** to restore backup copies of objects unless absolutely necessary. This could lead to an infection on your computer.

You are advised to periodically examine the Backup area, and empty it using the **Delete** button. You can also set up the program so that it automatically deletes the oldest copies from Backup (see 10.2.2 on pg. 93).

10.2.2. Configuring Backup settings

You can define the maximum time that backup copes remain in the Backup area.

The default Backup storage time is 30 days, at the end of which backup copies are deleted. You can change the storage time or remove this restriction altogether. To do so:

1. Open the Kaspersky Anti-Virus 6.0 SOS settings window by clicking Settings in the main program window.
2. Select **Data files** from the settings tree.
3. Set the duration for storing backup copies in the repository in the **Quarantine and Backup** section (see Figure 24) on the right-hand part of the screen. Alternately, uncheck the checkbox to disable automatic deletion.

10.3. Reports

Every virus task scan and update are recorded in a reports.

The total number of reports created by the program and their total size is displayed by clicking on **Data files** in the **Service** section of the main program window. The information is displayed in the *Reports* box.

To view reports:

Left-click anywhere in the *Reports* box to open the Protection window, which summarises protection given by the application. The window will open to the **Reports** tab.

The Reports tab (see Figure 26 lists the latest reports on virus scan tasks run during the current session of Kaspersky Anti-Virus 6.0 SOS. The status is listed beside each task, for example, *stopped* or *complete*. If you want to view the full history of report creation for the current session of the program, check **Show report history**.

To review all the events reported for a task:

Select the name of the task on the **Reports** tab and click the **Details** button.

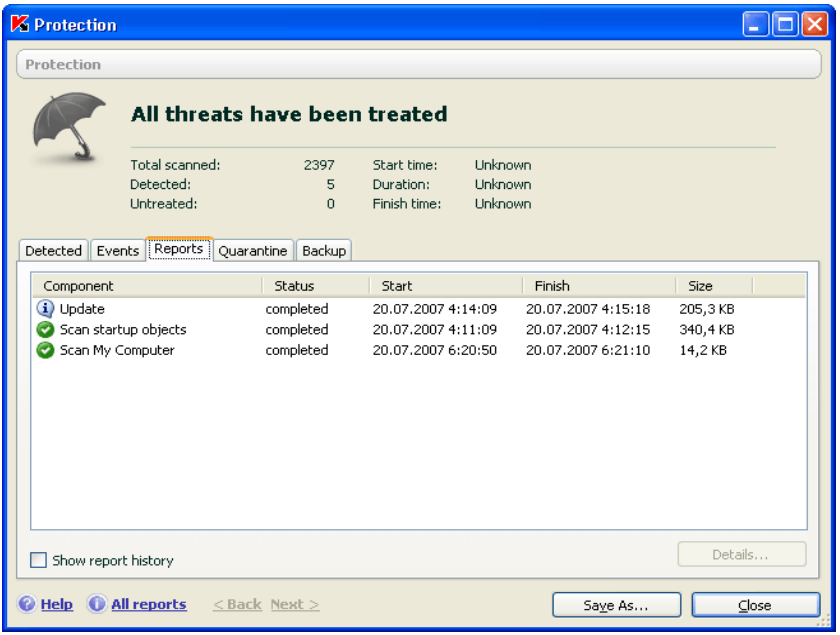


Figure 26. Reports on virus scan task operation

A window will then open that contains detailed information on the performance of the selected task. The resulting performance statistics are displayed in the upper part of the window, and detailed information is provided on tabs in the center of the window.

- The **Detected** tab contains a list of dangerous objects detected by a virus scan task.
- The **Events** tab displays task events.
- The **Statistics** tab contains detailed statistics for all scanned objects.
- The **Settings** tab displays settings used by virus scans or threat signature updates.

You can export the entire report as a text file. This feature is useful when an error has occurred which you cannot eliminate on your own, and you need assistance from Technical Support. If this happens, the report must be sent as a .txt file to Technical Support to enable our specialists can study the problem in detail and solve it as soon as possible.

To export a report as a text file:

Click **Save as** and specify where you want to save the report file.

After you are done working with the report, click **Close**.

There is an **Actions** button on all the tabs (except **Settings** and **Statistics**) which you can use to define responses to objects on the list. When you click it, a context-sensitive menu opens with a selection of these menu items (depending on the task the report relates to, menu options may change; all possible option are shown below):

Disinfect – attempts to disinfect a dangerous object. If the object is not successfully disinfected, you can leave it on this list to scan later with an updated threat signatures or delete it. You can apply this action either to one object on the list or to several selected objects.

Discard – delete the record of detecting the object from the list.

Add to trusted zone – exclude the object from protection. A window will open with an exclusion rule for the object.

Neutralize All – neutralize all objects on the list. Kaspersky Anti-Virus 6.0 SOS will attempt to process the objects using threat signatures.

Discard All – clear the report on detected objects. When you use this function, all detected dangerous objects remain on your computer.

Go to File – open the folder where the object is located in Windows Explorer.

Search www.viruslist.com – go to a description of the object in the Virus Encyclopedia on the Kaspersky Lab website.

Search www.google.com – find information on the object using this search engine.

Search – enter search terms for objects on the list by name or status.

In addition, you can sort the information displayed in the window in ascending and descending order for each of the columns, by clicking on the column head.

10.3.1. Configuring report settings

To configure settings for creating and saving reports:

1. Open the Kaspersky Anti-Virus 6.0 SOS settings window by clicking Settings in the main program window.
2. Select **Data files** from the settings tree.
3. Edit the settings in the **Reports** box (see Figure 27) as follows:
    - Allow or disable logging informative events. These events are generally not important for security. To log events, check **Log non-critical events**;

- Choose only to report events that have occurred since the last time the task was run. This saves disk space by reducing the report size. If **Keep only recent events** is checked, the report will begin from scratch every time you restart the task. However, only non-critical information will be overwritten.
- Set the storage time for reports. By default, the report storage time is 30 days, at the end of which the reports are deleted. You can change the maximum storage time or remove this restriction altogether.

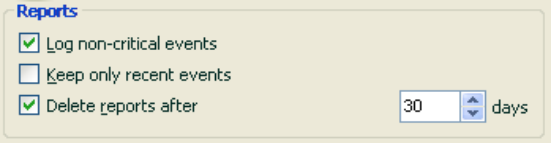


Figure 27. Configuring report settings

10.3.2. The *Detected* tab

This tab (see Figure 28) contains a list of dangerous objects detected by Kaspersky Anti-Virus 6.0 SOS. The full filename and path is shown for each object, with the status assigned to it by the program when it was scanned or processed.

If you want the list to contain both dangerous objects and successfully neutralized objects, check **Show neutralized objects**.

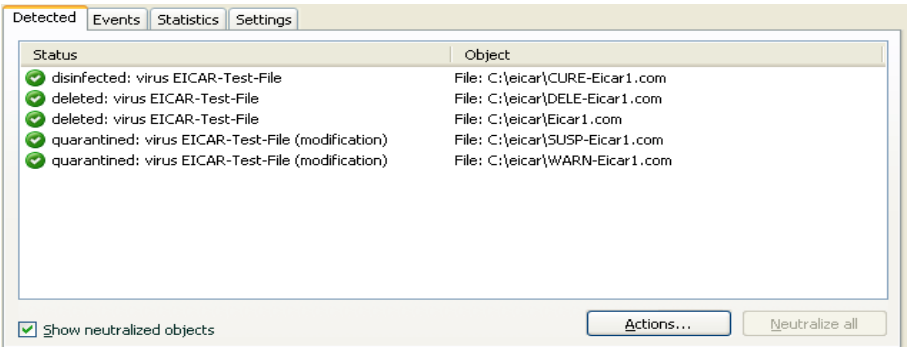


Figure 28. List of detected dangerous objects

To process dangerous objects detected by Kaspersky Anti-Virus 6.0 SOS, press the **Neutralize** button (for one object or a group of selected objects) or **Neutralize all** (to process all the objects on the list). After each object is

processed, a message will appear on screen. Here you will have to decide what to do with them next.

If you check **Apply to all** in the notification window, the action selected will be applied to all objects with the status selected from the list before beginning processing.

10.3.3. The *Events* tab

This tab (see Figure 29) provides you with a complete list of all the important events in virus scans and threat signature.

These events can be:

Critical events are events of a critical importance that point to problems in program operation or vulnerabilities on your computer. For example, *virus detected*, *error in operation*.

Important events are events that must be investigated, since they reflect important situations in the operation of the program. For example, *stopped.*

Informative messages are reference-type messages which generally do not contain important information. For example, *OK, not processed*. These events are only reflected in the event log if **Show all events** is checked.

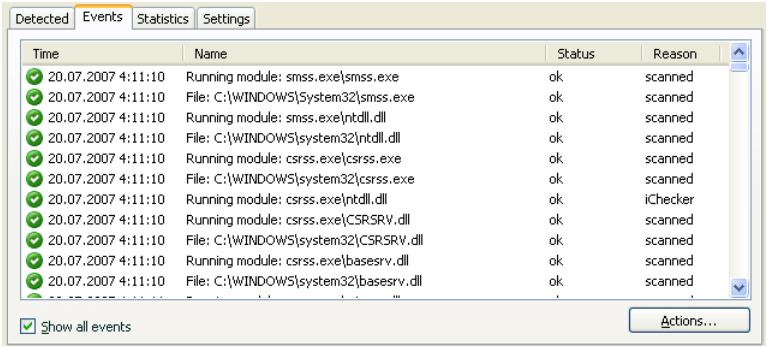

Detected
Events
Statistics
Settings
Time
Name
Status
Reason
20.07.2007 4:11:10 Running module: smss.exe\smss.exe ok scanned
20.07.2007 4:11:10 File: C:\WINDOWS\System32\smss.exe ok scanned
20.07.2007 4:11:10 Running module: smss.exe\ntdll.dll ok scanned
20.07.2007 4:11:10 File: C:\WINDOWS\system32\ntdll.dll ok scanned
20.07.2007 4:11:10 Running module: csrss.exe\csrss.exe ok scanned
20.07.2007 4:11:10 File: C:\WINDOWS\system32\csrss.exe ok scanned
20.07.2007 4:11:10 Running module: csrss.exe\ntdll.dll ok iChecker
20.07.2007 4:11:10 Running module: csrss.exe\CSRSRV.dll ok scanned
20.07.2007 4:11:10 File: C:\WINDOWS\system32\CSRSRV.dll ok scanned
20.07.2007 4:11:10 Running module: csrss.exe\basesrv.dll ok scanned
20.07.2007 4:11:10 File: C:\WINDOWS\system32\basesrv.dll ok scanned
Show all events
Actions...

Figure 29. Events that take place in component operation

The format for displaying events in the event log may vary with the task. The following information is given for update tasks:

- Event name
- Name of the object involved in the event

- Time when the event occurred
- Size of the file loaded

For virus scan tasks, the event log contains the name of the object scanned and the status assigned to it by the scan/processing.

10.3.4. The Statistics tab

This tab (see Figure 30) provides you with detailed statistics on and virus scan tasks. Here you can learn:

- How many objects were scanned for dangerous traits as a task was running. The number of scanned archives, compressed files, and password protected and corrupted objects is displayed.
- How many dangerous objects were detected, not disinfected, deleted, or placed in Quarantine.

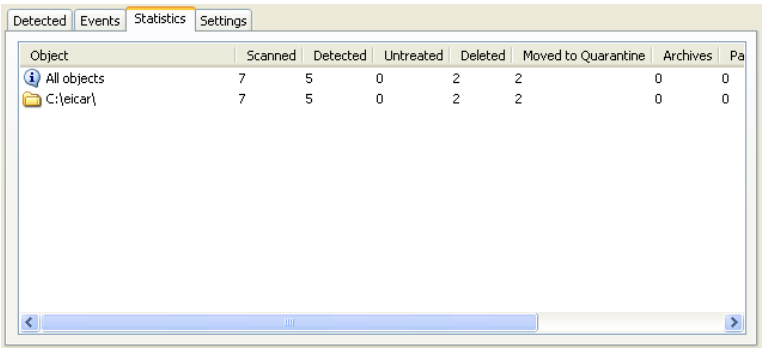


Figure 30. Component statistics

10.3.5. The Settings tab

The **Settings** tab (see Figure 31) displays a complete overview of the settings for virus scans and program updates. You can find out the current security level for a virus scan, what actions are being taken with dangerous objects, or what settings are being used for program updates. Use the Change settings link to configure the component.

You can configure advanced settings for virus scans:

- Establish the priority of scan tasks used if the processor is heavily loaded. The **Concede resources to other applications** checkbox is checked by default. With this feature, the program tracks the load on the processor

and disk subsystems for the activity of other applications. If the load on the processor increases significantly and prevents the user's applications from operating normally, the program reduces scanning activity. This increases scan time and frees up resources for the user's applications.

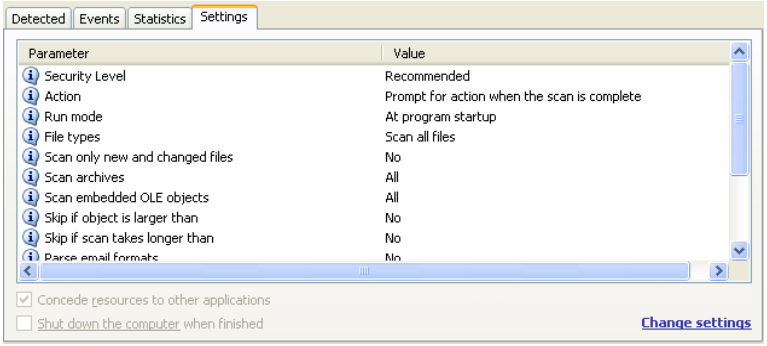


Figure 31. Component settings

- Set the computer's mode of operation for after a virus scan is complete. You can configure the computer to shut down, restart, or go into standby or sleep mode. To select an option, left-click on the hyperlink until it displays the option you need.

  You may need this feature if, for example, you start a virus scan at the end of the work day and do not want to wait for it to finish.

  However, to use this feature, you must take the following additional steps: before launching the scan, you must disable password requests for objects being scanned, if enabled, and enable automatic processing of dangerous objects, to disable the program's interactive features.

10.4. General information about the program

You can view general information on the program in the **Service** section of the main window (see Figure 32).

All the information is broken into three sections:

- The program version, the date of the last update, and the number of threats known to date are displayed in the **Product info** box.
- Basic information on the operation system installed on your computer is shown in the **System info** box.

- Basic information about the license you purchased for Kaspersky Anti-Virus 6.0 SOS is contained in the **License info** box.

You will need all this information when you contact Kaspersky Lab Technical Support (see 10.6 on pg. 102).

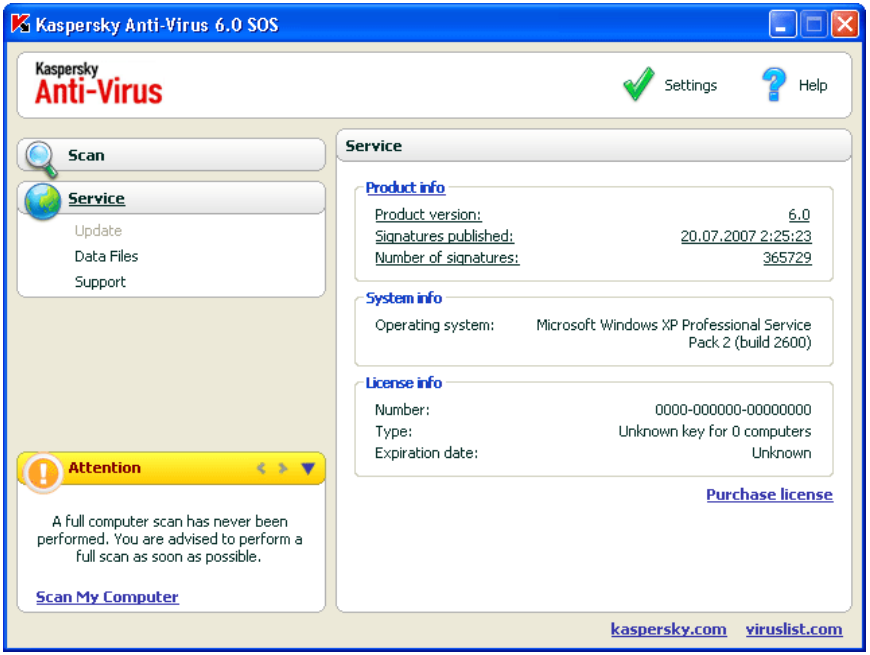


Figure 32. Information on the program, the license, and the system it is installed on

10.5. Managing licenses

Kaspersky Anti-Virus 6.0 SOS needs a *license key* to operate. You are given the key when you buy the product and it gives you the right to use the program from the day you install the key.

Without a license key, unless a trial version of the application has been activated, Kaspersky Anti-Virus 6.0 SOS will run in one update mode. The program will not download any new updates.

If a trial version of the program has been activated, after the trial period expires, Kaspersky Anti-Virus 6.0 SOS will not run.

When a commercial license key expires, the program will continue working, except that you will not be able to update threat signatures. As before, you will be

able to scan your computer for viruses, but only using the threat signatures that you had when the license expired. We cannot guarantee that you will be protected from viruses that surface after your program license expires.

To avoid infecting your computer with new viruses, we recommend extending your Kaspersky Anti-Virus 6.0 SOS license. The program will notify you two weeks prior to the expiration of your license, and for the next two weeks it will display this message every time you open it.

To renew the license, you will need to purchase and install a new application license key or enter an application activation code. To do so:

Contact your product vendor and purchase an application license key or application code.

or:

Obtain a license key or activation code directly from Kaspersky Lab by clicking the Purchase license link in the license key window (see Figure 33). Complete the form on our website. Once payment is made, a link will be sent to the email address you entered in the order form. This link will enable you to download an application license key or obtain an activation code.

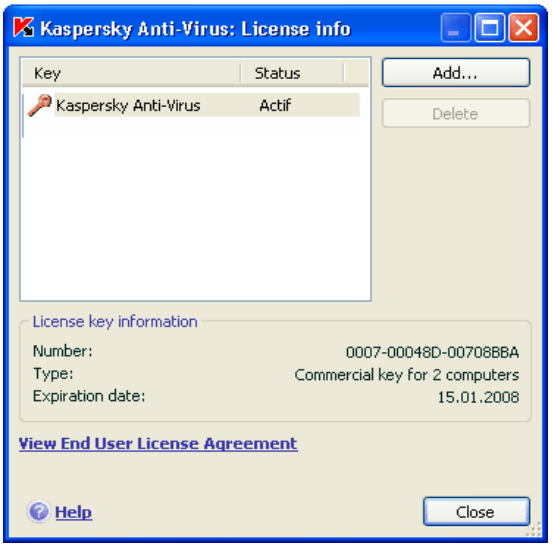


Figure 33. License information

Kaspersky Lab regularly has special pricing offers on license extensions for our products. Check for specials on the Kaspersky Lab website in the **Products → Sales and special offers** area.

Information on the current license key is available in the **License info** box of the **Service** section of the main application window. To go to the license manager window, left-click anywhere in the box. In the window that opens (see Figure 33), you can view information on the current key, add a key, or delete one.

When you select a key from the list in the **License info** box, information will be displayed on the license number, type, and expiration date. To add a new license key, click **Add** and activate the application with the activation wizard (see 3.2.1 on pg. 28). To delete a key from the list, press the **Delete** button.

To review the terms of the license agreement, click View End User License Agreement. To obtain a license through the web form on the Kaspersky Lab website, click Purchase license.

10.6. Technical Support

Kaspersky Anti-Virus 6.0 SOS provides you with a wide range of options for questions and problems related to program operation. They are all located in **Support** (see Figure 34) in the **Service** section.

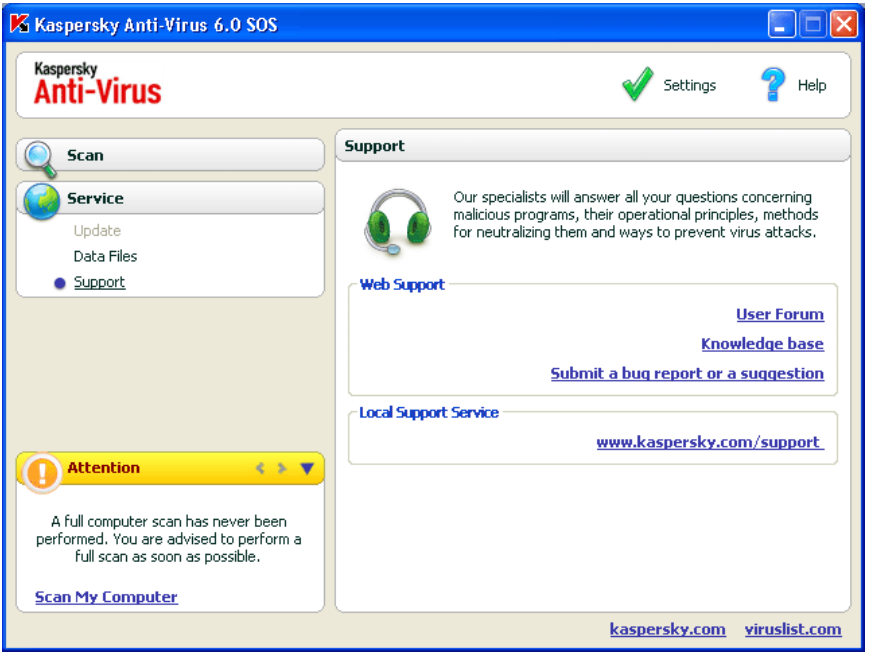


Figure 34. Technical support information

Depending on the problem, we provide several technical support services:

User forum. This resource is a dedicated section of the Kaspersky Lab website with questions, comments, and suggestions by program users. You can look through the basic topics of the forum and leave a comment yourself. You also might find the answer to your question.

To access this resource, use the User forum link.

Knowledge Base. This resource is also a dedicated section of the Kaspersky Lab website and contains Technical Support recommendations for using Kaspersky Lab software and answers to frequently asked questions. Try to find an answer to your question or a solution to your problem with this resource.

To obtain technical support online, click the Knowledge Base link.

Comments on program operation. This service is designed for posting comments on program operation or describing a problem that surfaced in program operation. You must fill out a special form on the company's website that describes the situation in detail. In order to best deal with the problem, Kaspersky Lab will need some information about your computer. You can describe the system configuration on your own or use the automatic information collector on your computer.

To go to the comment form, use the Submit a bug report or a suggestion link.

Technical support. If you need help with using Kaspersky Anti-Virus 6.0 SOS, click the link located in the **Local Support Service** box. The Kaspersky Lab website will then open with information about how to contact our specialists.

10.7. Configuring the Kaspersky Anti-Virus 6.0 SOS interface

Kaspersky Anti-Virus 6.0 SOS gives you the option of changing the appearance of the program by creating and using skins. You can also configure the use of active interface elements such as the system tray icon and popup messages.

To configure the program interface, take the following steps:

1. Open the Kaspersky Anti-Virus 6.0 SOS settings window by clicking the Settings link in the main window.
2. Select **Appearance** in the **Service** section of the program settings tree (see Figure 35).

In the right-hand part of the settings window, you can determine:

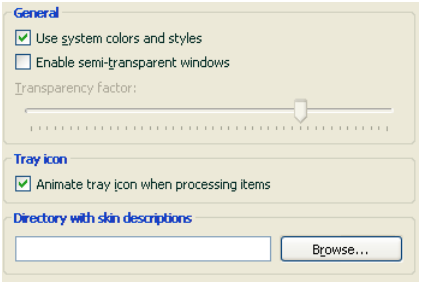


Figure 35. Configuring program appearance settings

- Whether to use animation in the system tray icon.

  Depending on the program operation performed, the system tray icon changes. For example, if an update is being performed, a small Easrth icon appears in front of the icon. By default, icon animation is enabled. If you want to turn off animation, uncheck **Animate tray icon when processing items**. Then the icon will only reflect the protection status of your computer: if protection is enabled, the icon wil be gray.

- Degree of transparency of popup messages.

  All Kaspersky Anti-Virus 6.0 SOS operations that must immediately reach you or require you to make a decision are presented as popup messages above the system tray icon. The message windows are transparent so as not to interfere with your work. If you move the cursor over the message, the transparency disappears. You can change the degree of transparency of such messages. To do so, adjust the **Transparency factor** scale to the desired position. To remove message transparency, uncheck **Enable semi-transparent windows**.

  This feature is unavailable under Windows 98/NT 4.0/ME.

- Use your own skins for the program interface.

  All the colors, fonts, icons, and texts used in the Kaspersky Anti-Virus 6.0 SOS interface can be changed. You can create your own graphics for the program or can localize it in another language. To use a skin, specify the directory with its settings in the **Directory with skin descriptions** field. Use the **Browse** button to select the directory.

  By default, the system colors and styles are used in the program's skin. You can remove them by deselecting **Use system colors and styles**. Then the styles that you specify in the screen theme settings will be used.

Note that changes to Kaspersky Anti-Virus 6.0 SOS interface settings are not saved if you restore default operation settings or uninstall the program.

10.8. Notification of Kaspersky Anti-Virus 6.0 SOS Events

Different kinds of events occur in Kaspersky Anti-Virus 6.0 SOS. They can be of an advisory nature or contain important information. For example, an event can inform you that the program has updated successfully.

To receive updates on Kaspersky Anti-Virus 6.0 SOS operation, you can use the notification feature.

Notices can be delivered in several ways:

- Popup messages above the program icon in the system tray
- Sound messages
- Emails
- Recording information in the event log

To use this feature, you must:

1. Open the application settings window by clicking the Settings link in the main window. Select **Service** in the settings tree.
2. Check **Enable notifications** in the **Interaction with user** box (see Figure 36).

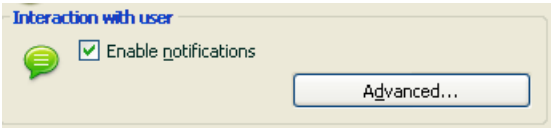


Figure 36. Enabling notifications

3. Define the event types from Kaspersky Anti-Virus 6.0 SOS for which you want notifications, and the notification delivery method (see 10.8.1.1 on pg. 106).
4. Configure email notification delivery settings, if that is the notification method that is being used (see 10.8.1.2 on pg. 108).

10.8.1.1. Types of events and notification delivery methods

During Kaspersky Anti-Virus 6.0 SOS operation, the following kinds of events arise:

Critical notifications are events of a critical importance. Notifications are highly recommended, since they point to problems in program operation or vulnerabilities in protection on your computer. For example, *threat signatures corrupt* or *license expired*.

Error notifications – events that lead to the application not working. For example, no license or threat signatures.

Important notifications are events that must be investigated, since they reflect important situations in the operation of the program. For example, *computer has not been scanned for viruses for a long time.*

Minor notifications are reference-type messages which generally do not contain important information. For example, *all dangerous objects disinfected*.

To specify which events the program should notify you of and how:

1. Click the Settings link in the program's main window.
2. In the program settings window, select **Service**, check **Enable notifications**, and edit detailed settings by clicking the **Advanced** button.

You can configure the following notification methods for the events listed above in the **Notification Settings** window that opens (see Figure 37):

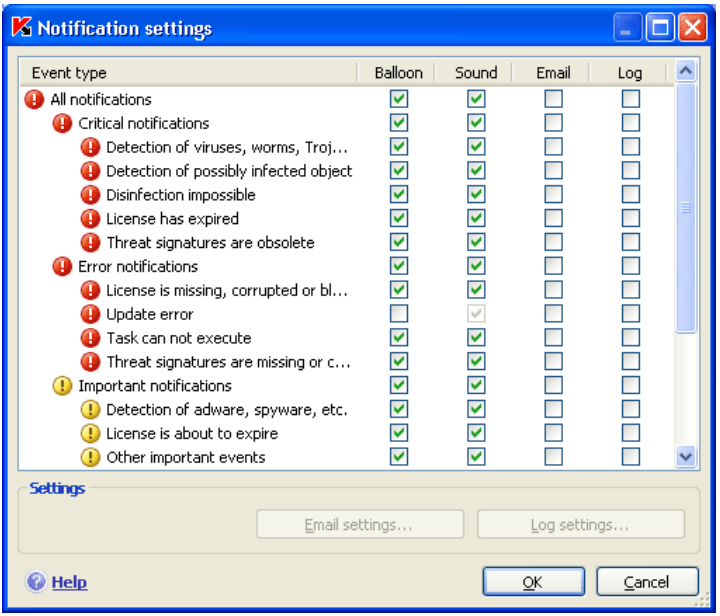


Figure 37. Program events and event notification methods

- *Popup messages* above the program icon in the system tray that contain an informative message on the event that occurred.

  To use this notification type, check ☑ in the **Balloon** section across from the event about which you want to be informed.

- *Sound notification*

  If you want this notice to be accompanied by a sound file, check ☑ **Sound** across from the event.

- *Email notification*

  To use this type of notice, check the ☑ **Email** column across from the event about which you want to be informed, and configure settings for sending notices (see 10.8.1.2 on pg. 108).

- *Recording information in the event log*

  To record information in the log about events that occur, check ☑ in the **Log** column and configure event log settings (see 10.8.1.3 on pg. 109).

10.8.1.2. Configuring email notification

After you have selected the events (see 10.8.1.1 on pg. 106) about which you wish to receive email notifications, you must set up notification delivery. To do so:

1. Open the program setup window with the Settings link in the main window.
2. Select **Service** in the settings tree.
3. Click **Advanced** in the **Interaction with user** box (see Figure 36) on the right-hand part of the screen.
4. On the **Notification settings** tab (see Figure 37), select the checkbox in the **E-mail** graph for events that should trigger an e-mail message.
5. In the window that opens when you click **Notification settings**, configure the following settings for sending e-mail notifications:
    - Assign the sending notification setting for **From: Email address**.
    - Specify the email address to which notices will be sent in **To: Email address**.
    - Assign a email notification delivery method in the **Send mode**. If you want the program to send email as soon as the event occurs, select **Immediately when event occurs**. For notifications about events within a certain period of time, fill out the schedule for sending informative emails by click **Change**. Daily notices are the default.

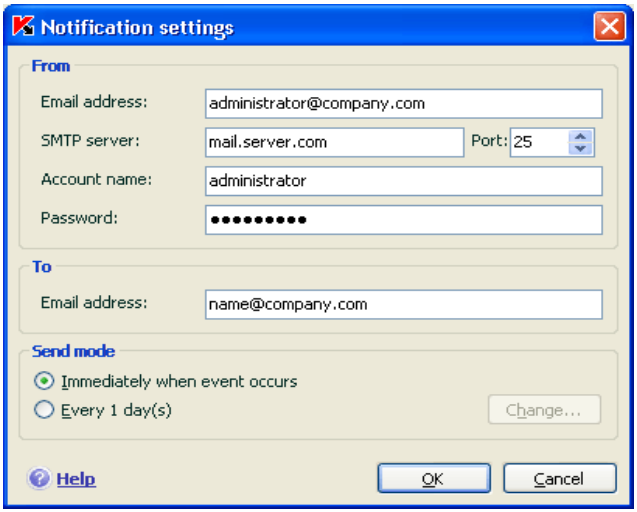


Figure 38. Configuring email notification settings

10.8.1.3. Configuring event log settings

To configure event log settings:

1. Open the application settings window with the Settings link in the main window.
2. Select **Service** in the settings tree.
3. Click **Advanced** in the **Interaction with user** section of the right-hand part of the screen.

In the **Notification Settings** window, select the option of logging information for an event and click the **Log Settings** button.

Kaspersky Anti-Virus 6.0 SOS has the option of recording information about events that arise while the program is running, either in the MS Windows general event log (**Application**) or in a dedicated Kaspersky Anti-Virus 6.0 SOS event log (**Kaspersky Event Log**).

Under Microsoft Windows 98/ME, you cannot record to the event log. Under Microsoft Windows NT 4.0, you cannot record to **Kaspersky Event Log**. These limitations are because of the features of these operating systems.

Logs can be viewed in the MS Event Viewer, which you can open by going to **Start → Settings → Control Panel → Administration → View Events**.

10.8.2. Restricting Application Access

Kaspersky Anti-Virus 6.0 SOS ensures your computer's security against malicious programs, and because of that , it can itself be the target of malicious programs that try to block it or delete it from the computer.

Moreover, several people may be using the same computer, all with varying levels of computer literacy. Leaving access to the program and its settings open could dramatically lower the security of the computer as a whole.

To ensure the stability of your computer's security system, the application has been equipped with password protection and a defense mechanism against remote manipulation.

To restrict application access:

1. Open the program settings window with the Settings link in the main window.
2. Select **Service** from the settings tree.
3. Under **Self-Defense** (see Figure 39), check **Disable external service control**. This will block any attempt to control the application's sevices remotely.

   If external application control is attempted, a message will appear over the program icon in the system tray (if the notification service has not been disabled by the user).

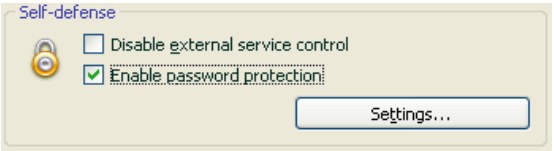


Figure 39. Configuring program defense

To password-protect the program, check **Enable password protection**. Click on the **Settings** button to open the **Password Protection** window, and enter the password and area that the access restriction will cover (see Figure 40). You can block any program operations, except notifications for dangerous object detection, or prevent any of the following actions from being performed:

- Change of program performance settings
- Close Kaspersky Anti-Virus 6.0 SOS
- Disable or pause protection on your computer

Each of these actions lowers the level of protection on your computer, so try to establish which of the users on your computer you trust to take such actions.

Now whenever any user on your computer attempts to perform the actions you selected, the program will request a password.

Figure 40. Program password protection settings

10.9. Importing and exporting Kaspersky Anti-Virus 6.0 SOS settings

Kaspersky Anti-Virus 6.0 SOS allows you to import and export ist own settings.

This feature is useful when, for example, the program is installed both on your home computer and in your office. You can configure the program the way you want it at home, save those settings on a disk, and using the import feature, load them on your computer at work. The settings are saved in a special configuration file.

To export the current program settings:

1. Open the Kaspersky Anti-Virus 6.0 SOS main window.
2. Select the **Service** section and click Settings.
3. Click the **Save** button in the **Configuration manager** section.
4. Enter a name for the configuration file and select a save destination.

To import settings from a configuration file:

1. Open the Kaspersky Anti-Virus 6.0 SOS main window.
2. Select the **Service** section and click Settings.
3. Click the **Load** button and select the file from which you want to import Kaspersky Anti-Virus 6.0 SOS settings.

10.10. Resetting to default settings

It is always possible to return to the default program settings, which are considered the optimum and are recommended by Kaspersky Lab. This can be done using the Setup Wizard.

To reset protection settings:

1. Select the **Service** section and click Settings to go to the program configuration window.
2. Click the **Reset** button in the **Configuration manager** section.

The resulting window prompts you to define which parameters are to be saved while the recommended security level is being restored.

By default, all custom settings listed are to be saved (they are unchecked). If one of the settings does not need to be saved, check the box next to it.

Initial Setup Wizard will open (see 3.2 pg. 28). Follow its instructions.

After you are finished with the Setup Wizard, the **Recommended** security level will be set for all tasks, except for the settings that you decided to keep. In addition, settings that you configured with the Setup Wizard will also be applied.

CHAPTER 11. WORKING WITH THE PROGRAM FROM THE COMMAND PROMPT

You can use Kaspersky Anti-Virus from the command prompt. You can execute the following operations:

- Starting, stopping, pausing and resuming virus scans
- Obtaining information on the current status of tasks and statistics on them
- Scanning selected objects
- Updating threat signatures and program modules
- Accessing Help for command prompt syntax
- Accessing Help for command syntax

The command prompt syntax is:

```
avp.com <command> [settings]
```

You must access the program from the command prompt from the program installation folder or by specifying the full path to avp.com.

The following may be used as **<commands>**:

ADDKEY	Activates application using a license key file (command can only be executed if the password assigned through the program interface is entered)
ACTIVATE	Activates the application online using an activation code
START	Starts a task
PAUSE	Pauses a task (command can only be executed if the password assigned through the program interface is entered)
RESUME	Resumes a task
STOP	Stops a task (command can only be executed if the

	password assigned through the program interface is entered)
STATUS	Displays the current task status on screen
STATISTICS	Displays statistics for the task on screen
HELP	Help with command syntax and the list of commands
SCAN	Scans objects for viruses
UPDATE	Begins program update
ROLLBACK	Rolls back to the last program update made (command can only be executed if the password assigned through the program interface is entered)
EXIT	Closes the program (you can only execute this command with the password assigned in the program interface)
IMPORT	Import Kaspersky Anti-Virus 6.0 SOS settings (command can only be executed if the password assigned through the program interface is entered)
EXPORT	Export Kaspersky Anti-Virus 6.0 SOS settings

Each command uses its own parameters.

11.1. Activating the application

There are two ways to activate the application:

- online using an activation code (ACTIVATE command)
- using a license key file (ADDKEY command).

Command syntax:

```
ACTIVATE <activation_code>
ADDKEY <file_name> /password=<your_password>
```

Parameters:

<file_name>	application key file name with the *.key extension.
<activation_code>	Application activation code provided at purchase.
<your_password>	Kaspersky Anti-Virus password set through the program interface.

Note that this command will not be accepted without a password.

Example:

```
avp.com ACTIVATE 11AA1-11AAA-1AA11-1A111
avp.com ADDKEY 1AA111A1.key /password=<your_password>
```

11.2. Managing Tasks

Command syntax:

```
avp.com <command> < task_name>
avp.com STOP|PAUSE <task_name>
/password=<your_password> [/R[A]:<report_file>]
```

Parameters:

<command>	Kaspersky Anti-Virus provides task and component management from the command line using the commands below: **START** – start real-time security component or task. **STOP** – stop real-time security component or task. **PAUSE** – pause real-time security component or task. **RESUME** – resume real-time security component or task. **STATUS** – display current real-time security component or task status. **STATISTICS** – display current real-time security component or task runtime statistics.

	Please note that PAUSE and STOP are password protected.
<task_name>	Valid values for the **<task_name>** parameter may include the name of any user-defined on-demand scan task or update. Pre-installed tasks have the following values: **UPDATER** : update; **RetranslationCfg** : copy updates to local source; **Rollback** : roll back most recent update; **SCAN_OBJECTS** : scan single object (file, folder, disk); **SCAN_MY_COMPUTER** : scan entire computer; **SCAN_CRITICAL_AREAS** : scan critical areas; **SCAN_STARTUP** : scan startup objects; **SCAN_QUARANTINE** : scan quarantined objects;
<your_password>	Kaspersky Anti-Virus password set through the program interface.
/R[A]:<report_file>	**R:<report_file>:** log important events only. **/RA:<report_file>:** log all events. An absolute or a relative path to a file may be used. If the parameter is not defined, scan results are displayed on screen, and all events are shown.
Tasks run from the command line will use parameters defined in the product interface.	

Examples:

To stop a My Computer scan task from the command prompt, enter:

```
avp.com STOP SCAN_MY_COMPUTER
/password=<your_password>
```

11.3. Anti-virus scans

The syntax for starting a virus scan of a certain area, and processing malicious objects, from the command prompt generally looks as follows:

```
avp.com SCAN [<object scanned>] [<action>] [<file types>]
[<exclusions>] [<configuration file>] [<report settings>]
[<advanced settings>]
```

To scan objects, you can also start one of the tasks created in Kaspersky Anti-Virus 6.0 SOS from the command prompt (see 11.1 on pg. 114). The task will be run with the settings specified in the program interface.

Parameter description.

<object scanned> - this parameter gives the list of objects that will be scanned for malicious code. It can include several values from the following list, separated by spaces.	
<files>	List of paths to the files and/or folders to be scanned. You can enter absolute or relative paths. Items in the list are separated by a space. Notes: • If the object name contains a space, it must be placed in quotation marks • If you select a specific folder, all the files in it are scanned.
/MEMORY	System memory objects
/STARTUP	Startup objects
/MAIL	Email databases
/REMDRIVES	All removable media drives
/FIXDRIVES	All internal drives
/NETDRIVES	All network drives
/QUARANTINE	Quarantined objects

/ALL	Complete scan
/@:<filelist.lst>	Path to a file containing a list of objects and folders to be included in the scan. The file should be in a text format and each scan object must start a new line. You can enter an absolute or relative path to the file. The path must be placed in quotation marks if it contains a space.
<action> - this parameter sets responses to malicious objects detected during the scan. If this parameter is not defined, the default value is **/i8**.	
/i0	take no action on the object; simply record information about it in the report.
/i1	Treat infected objects, and if disinfection fails, skip
/i2	Treat infected objects, and if disinfection fails, delete. Exceptions: do not delete infected objects from compound objects; delete compound objects with executable headers, i.e. sfx archives (default).
/i3	Treat infected objects, and if disinfection fails, delete. Also delete all compound objects completely if infected contents cannot be deleted.
/i4	Delete infected objects, and if disinfection fails, delete. Also delete all compound objects completely if infected contents cannot be deleted.
/i8	Prompt the user for action if an infected object is detected.
/i9	Prompt the user for action at the end of the scan.
<file types> - this parameter defines the file types that will be subject to the anti-virus scan. If this parameter is not defined, the default value is /fi.	
/fe	Scan only potentially infected files by extension
/fi	Scan only potentially infected files by contents (default)

/fa	Scan all files
<exclusions> - this parameter defines objects that are excluded from the scan. It can include several values from the list provided, separated by spaces.	
-e:a	Do not scan archives
-e:b	Do not scan email databases
-e:m	Do not scan plain text emails
-e:<filemask>	Do not scan objects by mask
-e:<seconds>	Skip objects that are scanned for longer that the time specified in the **<seconds>** parameter.
-es:<size>	Skip files larger (in MB) than the value assigned by **<size>**.
<configuration file> - defines the path to the configuration file that contains the program settings for the scan. The configuration file is a text file that contains a group of command prompt settings for antivirus scans. You can enter an absolute or relative path to the file. If this parameter is not defined, the values set in the Kaspersky Anti-Virus 6.0 SOS interface are used.	
/C:<settings_file>	Use the settings values assigned in the configuration file **<settings_file>**
<report settings> - this parameter determines the format of the report on scan results. You can use an absolute or relative path to the file. If the parameter is not defined, the scan results are displayed on screen, and all events are displayed.	
/R:<report_file>	Only log important events in this file
/RA:<report_file>	Log all events in this file

<Advanced settings> – settings that define use of anti-virus scanning technologies.	
/iChecker=<on|off>	Enable/ disable iChecker

Examples:

Start a scan of RAM, Startup programs, email databases, the directories **My Documents** *and* **Program Files**, *and the file* **test.exe***:*

```
avp.com SCAN /MEMORY /STARTUP /MAIL "C:\Documents and
Settings\All Users\My Documents" "C:\Program Files"
"C:\Downloads\test.exe"
```

Pause scan of selected objects and start full computer scan, then continue to scan for viruses within the selected objects:

```
avp.com PAUSE SCAN_OBJECTS /password=<your_password>
avp.com START SCAN_MY_COMPUTER
avp.com RESUME SCAN_OBJECTS
```

Scan RAM and the objects listed in the file ***object2scan.txt****. Use the configuration file* ***scan_setting.txt****. After the scan, generate a report in which all events are recorded:*

```
avp.com SCAN /MEMORY /@:objects2scan.txt
/C:scan_settings.txt /RA:scan.log
```

11.4. Program updates

The syntax for updating Kaspersky Anti-Virus 6.0 SOS program modules and threat signatures from the command prompt is as follows:

```
avp.com UPDATE [<path/URL>] [/R[A]:<report_file>]
[/C:<settings_file>] [/APP=<on|off>]
```

Parameter description:

[<path/URL>]	HTTP or FTP server or network folder for downloading updates. If a path is not selected, the update source will be taken from the Updater settings.

/R[A]:<report_file>	**/R:<report_file>** – only log important events in the report. **/R[A]:<report_file>** – log all events in the report. You can use an absolute or relative path to the file. If the parameter is not defined, the scan results are displayed on screen, and all events are displayed.
/C:<settings_file>	Path to the configuration file with the settings for program updates. The configuration file is a text file that contains a group of command prompt settings for updating the program. You can enter an absolute or relative path to the file. If this parameter is not defined, the values for the settings in the Kaspersky Anti-Virus 6.0 SOS interface are used.
/APP=<on|off>	Enable / Disable application module updates

Examples:

Update threat signatures and record all events in the report:

```
avp.com UPDATE /RA:avbases_upd.txt
```

*Update the Kaspersky Anti-Virus 6.0 SOS program modules by using the settings in the configuration file **updateapp.ini**:*

```
avp.com UPDATE /APP=on /C:updateapp.ini
```

11.5. Rollback settings

Command syntax:

```
ROLLBACK [/R[A]:<report_file>][/password=<password>]
```

/R[A]:<report_file>	**/R:<report_file>** – only log important events in the report. **/R[A]:<report_file>** – log all events in the report. You can use an absolute or relative path to the file. If the parameter is not defined, the scan results are displayed on screen, and all events are displayed.
<password>	Password for accessing Kaspersky Anti-Virus 6.0 SOS assigned in the application interface.

Note that you cannot execute this command without entering the password.

Example:

```
avp.com ROLLBACK /RA:rollback.txt
/password=<your_password>
```

11.6. Exporting settings

Command syntax:

```
avp.com EXPORT <profile> <filename>
```

Parameter description:

<profile>	Task with the settings being exported. You can use any value for **<profile>** that is listed in 11.2 on pg. 115.
<filename>	Path to file containing exported Kaspersky Anti-Virus 6.0 SOS parameters. An absolute or a relative path may be specified. The configuration file is saved in binary format (*.dat*), unless another format is specified or if the format is not assigned, and it can be used later to import application settings on other computers. The configuration file can be saved as a text file. To do so, specify the *.txt* extension in the file name. Note that protection settings cannot be imported from a text file. This file can only be used to specify the main settings for program operation.

Example:

```
avp.com EXPORT c:\settings.dat
```

11.7. Importing settings

Command syntax:

```
avp.com IMPORT <filename> [/password=<password>]
```

<file_name>	Path to file from which Kaspersky Anti-Virus 6.0 SOS parameters will be imported. An absolute or a relative path may be specified. Settings can only be imported from binary files.
<password>	Kaspersky Anti-Virus 6.0 SOS password assigned in the program interface.

Note that you cannot execute this command without entering the password.

Example:

```
avp.com IMPORT c:\settings.dat /password=<your_password>
```

11.8. Starting the program

Command syntax:

```
avp.com
```

11.9. Stopping the program

Command syntax:

```
avp.com EXIT /password=<password>
```

<password>	Kaspersky Anti-Virus 6.0 SOS password assigned in the program interface.

Note that you cannot execute this command without entering the password.

11.10. Obtaining a Trace File

A trace file may be required in the event of application runtime issues for Technical Support specialists to perform more focused troubleshooting.

Command syntax:

```
avp.com TRACE [file] [on|off] [<trace_level>]
```

[on|off]	Enable/Disable trace file generation.
[file]	Obtain a trace and save to file.
<trace_level>	This parameter may be assigned numeric values ranging from 0 (lowest level, critical events only) to 700 (highest level, all events). When a request is sent to Technical Support, a specialist must specify the required trace level. If not specified, the recommended level is 500.
Caution! Trace file generation should be enabled to troubleshoot a specific issue only. Keeping the trace functionality active at all times may reduce computer performance and cause the hard drive to become full.	

Examples:

Disable trace:

```
avp.com TRACE file off
```

Generate a trace file for Technical Support at maximum trace level of 500:

```
avp.com TRACE file on 500
```

11.11. Viewing Help

This command is available for viewing Help on command prompt syntax:

```
avp.com [ /? | HELP ]
```

To get help on the syntax of a specific command, you can use one of the following commands:

```
avp.com <command> /?
avp.com HELP <command>
```

11.12. Return codes from the command line interface

This section contains a list of return codes from the command line. The general codes may be returned by any command from the command line. The return codes include general codes as well as codes specific to a specific type of task.

General return codes	
0	Operation completed successfully
1	Invalid setting value
2	Unknown error
3	Task completion error
4	Task canceled
Anti-virus scan task return codes	
101	All dangerous objects processed
102	Dangerous objects detected

CHAPTER 12. MODIFYING, REPAIRING, AND REMOVING THE PROGRAM

You can uninstall the application in the following ways:

- Using the application's Setup Wizard (see 12.2 on pg. 128)
- From the command prompt (see 12.2 on pg. 128)
- Using Kaspersky Administration Kit (see Kaspersky Administration Kit Implementation Guide)
- Using Microsoft Windows Server 2000/2003 group domain policies (see 3.4.3 on p. 35).

12.1. Modifying, repairing, and removing the program using Installation Wizard

You may find it necessary to repair the program if you detect errors in its operation after incorrect configuration or file corruption.

Modifying the program can install missing Kaspersky Anti-Virus 6.0 SOS components and delete unwanted ones. You can install or remove the Kaspersky Administration Kit Administration Agent plugin, for instance.

To repair or modify Kaspersky Anti-Virus 6.0 SOS missing components or delete the program:

1. Insert the installation CD into the CD-ROM drive, if you used one to install the program. If you installed Kaspersky Anti-Virus 6.0 SOS from a different source (public access folder, folder on the hard drive, etc.), make sure that the installer package is in the folder and that you have access to it.
2. Select **Start → Programs → Kaspersky Anti-Virus 6.0 6.0 SOS → Modify, Repair, or Remove**.

An installation wizard then will open for the program. Let's take a closer took at the steps of repairing, modifying, or deleting the program.

Step 1. Installation Welcome window

If you take all the steps described above necessary to repair or modify the program, the Kaspersky Anti-Virus 6.0 SOS installation welcome window will appear. To continue, click the **Next** button.

Step 2. Selecting an operation

At this stage, you select which operation you want to run. You can modify the program components, repair the installed components, remove components or remove the entire program. To execute the operation you need, click the appropriate button. The program's response depends on the operation you select.

Modifying the program is like custom program installation where you can specify which components you want to install, and which you want to delete.

Repairing the program depends on the program components installed. All previously installed files will be updated and the Recommended security level will be selected.

If you remove the program, you can select which data created and used by the program you want to save on your computer. To delete all Kaspersky Anti-Virus 6.0 SOS data, select **Complete uninstall**. To save data, select **Save application objects** and specify which objects not to delete from this list:

- *Activation data* – license key file necessary for the application to operate.
- *Threat signatures* – complete set of signatures of dangerous programs, virus, and other threats current as of the last update.
- *Backup files* – backup copies of deleted or disinfected objects. You are advised to save these, in case they can be restored later.
- *Quarantine files* – files that are potentially infected by viruses or modifications of them. These files contain code that is similar to code of a known virus but it is difficult to determine if they are malicious. You are advised to save them, since they could actually not be infected, or they could be disinfected after the threat signatures are updated.
- *Application runtime settings* – runtime configuration values.

To start the operation selected, click the **Next** button. The program will begin copying the necessary files to your computer or deleting the selected components and data.

Step 3. Completing program modification, repair, or removal

The modification, repair, or removal process will be displayed on screen, after which you will be informed of its completion.

Removing the program generally requires you to restart your computer, since this is necessary to account for modifications to your system. The program will ask if you want to restart your computer. Click **Yes** to restart right away. To restart your computer later, click **No**.

12.2. Uninstalling the program from the command prompt

To uninstall Kaspersky Anti-Virus 6.0 6.0 SOS from the command prompt, enter:

`msiexec /x <package_name>`

The Setup Wizard will open. You can use it to uninstall the application (see Chapter 12 on pg. 126).

To uninstall the application in the non-interactive without restarting the computer (the computer should be restarted manually after uninstalling), enter:

`msiexec /x <package_name> /qn`

To uninstall the application in the non-interactive and then restart the computer, enter:

`msiexec /x <package_name> ALLOWREBOOT=1 /qn`

If you opted for password protection against uninstalling the program when you installed the program, you will need to enter the password protection when uninstalling the program. Otherwise program cannot be uninstalled.

To remove the application by entering a password as evidence of the removal privilege, enter:

`msiexec /x <package_name> KLUNINSTPASSWD=******` – to remove `application` in interactive mode;

`msiexec /x <package_name> KLUNINSTPASSWD=****** /qn` – to remove application in non-interactive mode;

CHAPTER 13. ADMINISTERING THE PROGRAM WITH KASPERSKY ADMINISTRATION KIT

Kaspersky Administration Kit is a system for centrally managing the key administrative tasks in operating a security system for a company network, based on the applications included in Kaspersky Anti-Virus Business Optimal.

Kaspersky Anti-Virus 6.0 6.0 SOS is one of the Kaspersky Lab products that can be administered through its own interface, the command line (these methods are described above in this User Guide) or using Kaspersky Administration Kit (if the computer is a part of the centralized remote administration system).

Remote application administration is available through Kaspersky Administration Kit. To control the application remotely:

- deploy *Administration Server* on the network; install *Administration Console* on the administrator's workstation (for more details, see the Administrator Guide for installing Kaspersky Administration Kit 6.0;
- deploy Kaspersky Anti-Virus 6.0 6.0 SOS and *Administration Agent* (included with Kaspersky Administration Kit) to network clients. For more information on remote installation of Kaspersky Anti-Virus 6.0 SOS on network computers, see the Kaspersky Administration Kit 6.0 Rollout Guide.

Note the following particulars of using Kaspersky Anti-Virus through Kaspersky Administration Kit:

If computers in the network are have Kaspersky Anti-Virus 5.0 installed, you must take the following steps before upgrading to 6.0 through Kaspersky Administration Kit:

- First, stop the previous version of the application (you can do this remotely through Kaspersky Administration Kit);
- Close all other application before beginning installation;
- Install application version 6.0.

Administration Console (see Figure 41) allows you to administer the application through Kaspersky Administration Kit. It provides a standard **MMC-integrated interface** and allows the administrator to perform the following functions:

- remotely install Kaspersky Anti-Virus 6.0 SOS and *Administration Agent* on network computers
- remotely configure Kaspersky Anti-Virus 6.0 SOS on network computers
- update Kaspersky Anti-Virus 6.0 SOS threat signatures and modules
- manage licenses for the application on network computers
- view information about program operation on client computers

Kaspersky Anti-Virus 6.0 SOS does not provide real-time computer security. Therefore, a computer with Kaspersky Anti-Virus 6.0 SOS is shown as **Critical** in the Kaspersky Administration Kit Administration Console result panel (red icon next to computer name).

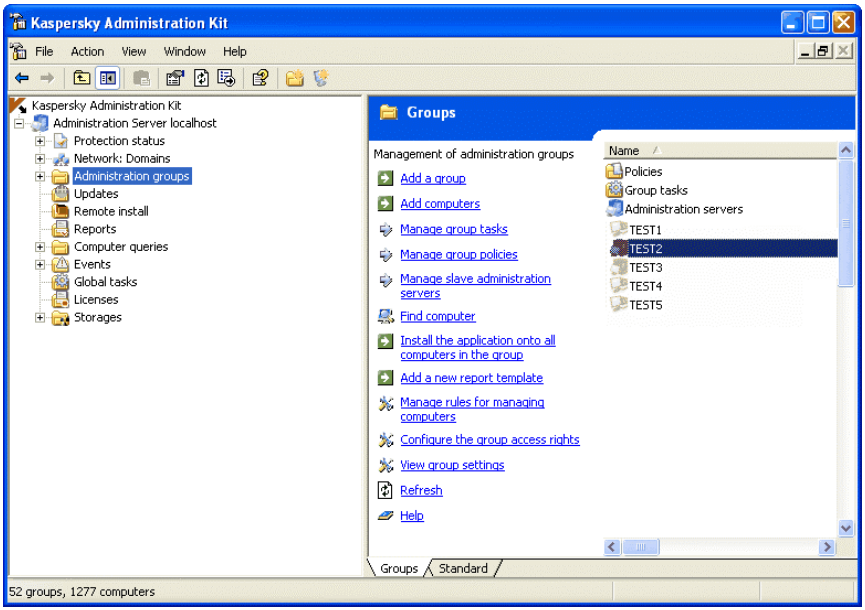


Figure 41. Kaspersky Administration Kit[1] Administration Console

When administering the program centrally through Kaspersky Administration Kit, the administrator determines the settings for policies, tasks, and the application. Protection is designed around these settings.

Application settings are a set of general settings for task execution, including general protection settings, Backup settings, etc.

Task is a specific action performed by the application. Tasks for Kaspersky Anti-Virus 6.0 SOS are divided by type (license key install tasks, on-demand scan tasks, anti-virus database update rollback tasks, anti-virus database and application module update tasks). Each specific task has a set of Kaspersky Anti-Virus settings when performed (*task settings*).

The key feature of centralized administration is grouping remote computers and managing their settings by creating and configuring group policies.

[1] Kaspersky Administration Kit main window may be different depending on the host operating system.

Policy refers to a collection of settings for Kaspersky Anti-Virus operation within a network group. The policy may also include restrictions on modifying the configurations assigned when setting up the application or task.

A policy allows you to manage the complete functionality of the application, since it contains both application settings and settings for all task types, except for settings that must be configured directly when a task starts (for example, task schedules).

13.1. Administering the application

Kaspersky Administration Kit gives you the opportunity to remotely start and pause Kaspersky Anti-Virus 6.0 SOS on individual client computers, as well as configuring general settings for the application, such as enabling/disabling computer protection, configuring settings for Backup and Quarantine, and configuring settings for creating reports.

To manage application settings:

1. Select the group folder that contains the client computer in the **Groups** folder (see Figure 41).
2. In the result pane, select the computer for which you need to modify application settings. Select the **Applications** command from the context menu or the **Actions** menu.
3. The **Applications** tab in the client computer properties window (see Figure 42) displays a complete list of Kaspersky Lab applications installed on the client computer. Select **Kaspersky Anti-Virus 6.0 SOS**.

There are buttons are under the list that you can use to:

- View a list of events in application operation that have occurred on the server and were recorded on the administration server
- View statistical information on application operation
- Configure the application settings (see 13.1.2 on pg. 134)

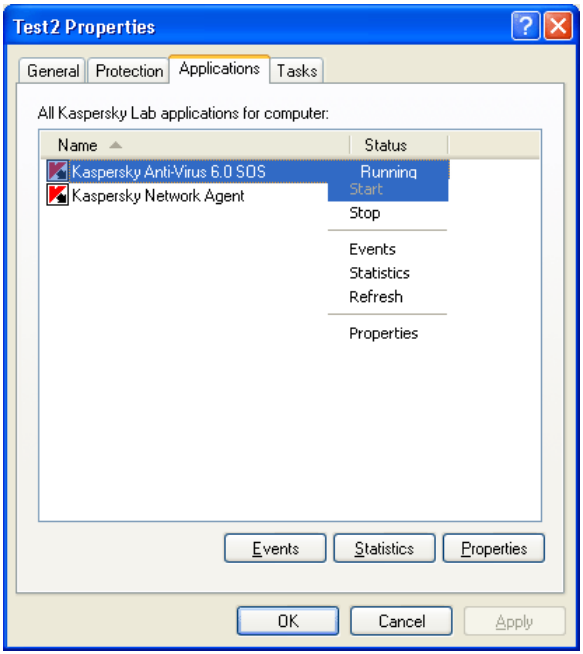


Figure 42. List of Kaspersky Lab applications

13.1.1. Starting/stopping the application

You can start or pause Kaspersky Anti-Virus 6.0 SOS on a remote computer using the commands from the context menu in the **Computer name Properties** window (see Figure 42).

You can also do this using the **Start/Stop** buttons in the settings window on the **General** tab (see Figure 43).

In the upper part of the window, you will find the name of the application installed, information on the version, the install date, its status (whether the application is running or paused on the local computer), and information about the threat signature database status.

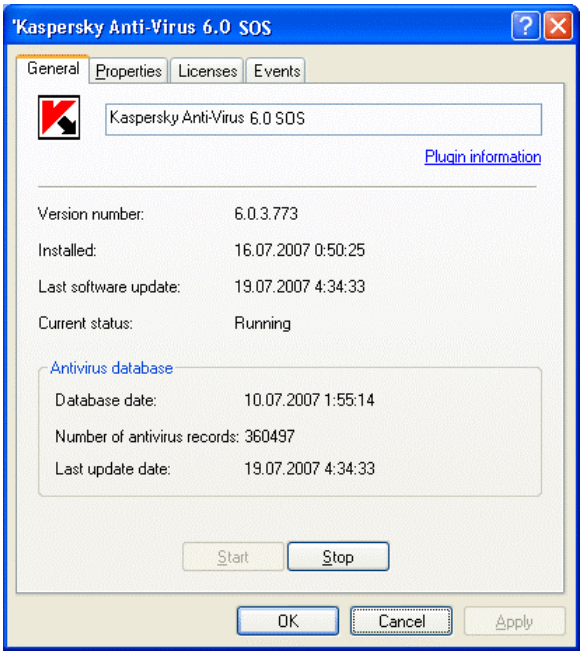


Figure 43. Configuring Kaspersky Anti-Virus 6.0 SOS settings. **General** tab

13.1.2. Configuring application settings

To view or modify application settings:

1. Open the properties window for the client computer on the **Applications** tab (see Figure 42).
2. Select **Kaspersky Anti-Virus 6.0 SOS**. Click the **Properties** button to open the application settings window (see Figure 44).

All the tabs except for the **Properties** tab are standard for Kaspersky Administration Kit. For more on the standard tabs, see the Administrator Guide.

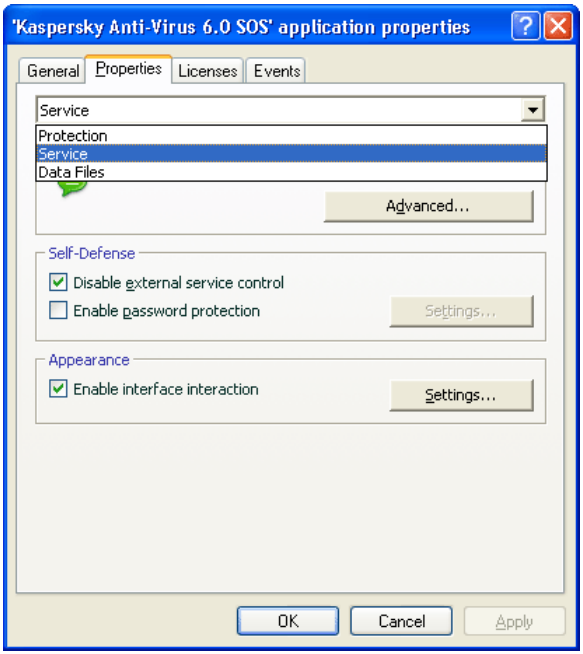


Figure 44. Configuring Kaspersky Anti-Virus 6.0 SOS settings. **Properties** tab

If a policy has been created for the application (see 13.3 on pg. 143) that prevents some settings from being reconfigured, they will not be editable when configuring the application.

On the **Properties** tab, you can configure general protection settings, Kaspersky Anti-Virus 6.0 SOS protection tools settings, and settings for creating and saving report statistics for the application. To do so, select the needed value from the dropdown menu in the upper portion of the window and configure settings.

Protection

On the **Properties** tab in the **Protection** section, you can:

- configure automatic startup for the application when the computer is turned on (see 6.1 on pg. 45);
- create a trusted zone or an exclusion list (see 6.3 on pg. 46);
- select the types of malicious programs that the application will monitor

(see 6.2 on pg. 45);

- configure productivity settings for Kaspersky Anti-Virus 6.0 SOS (see 6.6 on pg. 54).

Service

On the **Properties** tab in the **Service** section, you can:

- Configure notifications for events that occur (see 10.8 on pg. 105)
- Configure the appearance of Kaspersky Anti-Virus 6.0 SOS (see 10.8.2 on pg. 110)
- Configure settings for compatibility between Kaspersky Anti-Virus 6.0 SOS and other programs (see 13.1.3 on pg. 136)

Data Files

- In this window, you can configure settings for logging statistics on application operation (see 10.3.1 on pg. 95) and specify how long files will be stored in Backup (see 10.1.2 on pg. 90) and Quarantine (see 10.2.2 on pg. 93).

13.1.3. Configuring specific settings

When administering Kaspersky Anti-Virus 6.0 SOS through Kaspersky Administration Kit, you can enable/disable interactivity and edit information on Technical Support. To do so:

1. Open the properties window for the client computer on the **Applications** tab (see Figure 42). Select **Kaspersky Anti-Virus 6.0 SOS** and click the **Properties** button. As a result, an application settings window will open.
2. Go to the **Settings** tab (see Figure 44). Select **Service** from the dropdown menu in the upper part of the window.

On the **Service** tab in the **Appearance** window, you can enable/disable Kaspersky Anti-Virus 6.0 SOS interactivity on a remote computer: displaying the Kaspersky Anti-Virus 6.0 SOS icon in the system tray, issuing notifications on events that occur in the application (for example, detection of a dangerous object).

If ☑ **Enable interface interaction** is checked, a user working on a remote computer will see the Anti-Virus icon and pop-up messages and will have the ability to make decisions on the next steps taken in notification windows

regarding events that occur. To disable application interactivity, deselect the checkbox.

On the **Custom support information** tab in the window that opens when you click the **Settings** button, you can edit the information on user technical support that is displayed in the **Service** section of the **Support** item in Kaspersky Anti-Virus 6.0 SOS (see Figure 34).

To change information in the upper field, enter the current text on the support provided. In the field below, you can edit the hyperlinks that are displayed in the **Web support** box that is pulled up when **Support** is selected in the **Service** section.

You can edit the list of sources using the **Add**, **Edit**, and **Delete** buttons. Kaspersky Anti-Virus 6.0 SOS will add a new link to the top of the list. To change the order of the links in the list, use the **Up**/**Down** buttons.

If the window does not contain any data, the default information on technical support is not subject to editing.

13.2. Managing tasks

This section lists information on managing tasks for Kaspersky Anti-Virus 6.0 SOS. For more on the concept of managing tasks through Kaspersky Administration Kit 6.0, see the Administrator Guide for the program.

A list of system tasks is created for each computer when the application is installed. This list (see 45) includes several virus scan tasks (My Computer, Startup Objects, Critical Areas), and update tasks (threat signature and application module updates and update rollbacks).

You can start system tasks and configure settings and schedules for them, but they cannot be deleted.

In addition, you can create your own tasks, such as virus scans, application updates and update rollbacks, as well as license key installation tasks (see 13.2.2 on pg. 139).

To view a list of the tasks created for a client computer:

1. Select the group folder that contains the client computer in the **Groups** folder (see Figure 41).

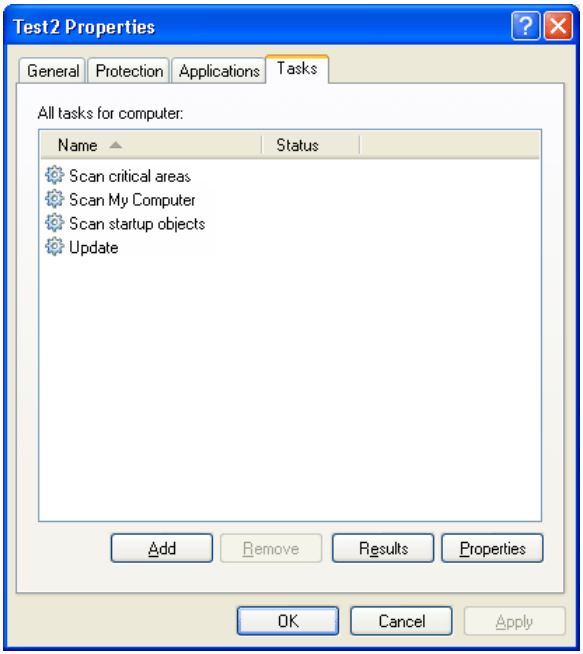


Figure 45. List of Kaspersky Anti-Virus 6.0 SOS tasks

2. In the result pane, select the computer for which you want to view a list of local tasks. Use the **Tasks** command from the context menu or the same command on the **Action** menu. Then in the main window a window will open displaying the properties of the client computer.
3. The **Tasks** tab (see Figure 45) displays a complete list of tasks created for that client computer.

13.2.1. Starting and stopping tasks

Tasks are started on the client computer only if the corresponding application is running (see 13.1.1 on pg. 133). If the application is stopped, all tasks started will be terminated.

Tasks are started and paused automatically, according to a schedule, or manually using commands from the context menu and from the View Task Settings window. You can also pause tasks and resume them.

To start/stop/pause/resume a task manually:

Select the necessary task (group or global) from the results pan, open the context menu, and select **Start/Stop/Pause/Resume** or use the same commands on the **Action** menu.

You can initiate the same operations for all task types from the task settings window on the **General** tab (see Figure 46), using the same command buttons.

13.2.2. Creating tasks

When working with Kaspersky Anti-Virus 6.0 SOS through Kaspersky Administration Kit, you can create:

- Local tasks, configured for individual computers
- Group tasks, configured for computers joined in one network group
- Global tasks, configured for any set of computers from any network group

You can modify task settings, monitor their performance, copy and move tasks from one group to another, and also delete them using the standard commands **Copy/Paste**, **Cut/Paste**, and **Delete** from the context menu, or the same commands from the **Action** menu.

13.2.2.1. Creating local tasks

To create a local task, take the following steps:

1. Open the local client properties window on the the **Tasks** tab (see 45).
2. Click the **Add** button to add a new local task. A task creation wizard will then start up that consists of a series of windows or steps that you can navigate between using the **Back** and **Next** buttons. You complete the wizard by pressing **Finish**. The **Cancel** button will stop the Wizard at any point.

Step 1. Entering general data on the task

The first master window is introductory: here you must specify the name of the task (the **Name** field).

Step 2. Selecting an application and task type

In this step, you must specify the application for which the task is being created (Kaspersky Anti-Virus 6.0 SOS). You must also select the task type. The possible tasks for Kaspersky Anti-Virus 6.0 SOS are:

- *Virus scan* – scans for viruses in the areas specified by the user
- *Update* – retrieves and applies update packs for the program
- *Update Rollback* – rolls back to the last program update made
- *License key install* – adds a new license key for using the application

Step 1. Configuring settings for the selected task type

Depending on the task type selected in the previous step, the contents of the following windows can vary:

VIRUS SCAN

The virus scan task configuration window requires you to specify the action Kaspersky Anti-Virus 6.0 SOS is to take when it detects a dangerous object (see 7.4.4 on pg. 64). You must also create a list of objects to be scanned (see 7.2 on pg. 57).

UPDATE

For threat signature and application module update tasks, you must specify the source that will be used to download updates (see 9.4.1 on pg. 78). The default update source is the Kaspersky Administration Kit update server.

UPDATE ROLLBACK

There are no specific settings for rolling back the most recent update.

INSTALL LICENSE KEY

For license key installation tasks, specify the path to the key file with the **Browse** button. To make an added key a backup, check ☑ **Add as backup key**. The backup license key will become active when the current license key expires.

Information about the key added (license number, type, and expiration date) is displayed in the field below.

Step 2. Selecting a user profile

In this step, you are asked to configure tasks to start under a user account with sufficient privileges to access the object being scanned or update source (for more details, see 6.4 on pg. 51).

Step 3. Setting up a schedule

After configuring task settings, you will be asked to configure an automatic task schedule.

To do so, select the frequency for running the task from the dropdown menu and adjust the schedule settings in the lower part of the window.

Step 4. Finishing creating a task

The last window of the wizard will inform you that you have successfully creating a task.

13.2.2.2. Creating group tasks

To create a group task for Kaspersky Anti-Virus 6.0 SOS, take the following steps:

1. Select the group for which you want to create a task from the console tree.
2. Select its **Group tasks** (see Figure 41) folder, open the context menu, and select the **Create→Task** command, or use the same command on the **Action** menu. The task creation wizard will then start, similar to the local task create wizard (for more, see 13.2.2.1 on pg. 139). Follow its instructions.

When the wizard is finished, the task will be added to the **Group tasks** folder of that group and all the groups under it, and it will be visible in the results pane.

13.2.2.3. Creating global tasks

To create a global task for Kaspersky Anti-Virus 6.0 SOS, take the following steps:

1. Select the **Global tasks** node from the console tree (see Figure 41), open the context menu, and select the **New→Task** command, or use the same command on the **Action** menu.
2. The task creation wizard will then start, similar to the local task create wizard (for more, see 13.2.2.1 on pg. 139). The exception is that there is a stage for creating a list of client computers from the network for which the global task is being created.
3. Select from the network the computers that will run the task. You can select computers from multiple folders or select an entire folder (for more details, see the Administrator Guide for Kaspersky Administration Kit 6.0).

Global tasks are only performed on a selected set of computers. If new client computers are added to a group with computers for which a remote installation task has been created, this task will not run for them. You must create a new task or make corresponding changes to the settings of the existing task.

When the wizard is finished, a global task will be added to the **Global tasks** node of the console tree and will be visible in the results pane.

13.2.3. Configuring specific task settings

To view and modify client computer task settings:

1. Open the properties window for the client computer on the **Tasks** tab (see Figure 45).
2. Select the task from the list and click the **Properties** button. As a result, a task settings window will open (see Figure 46).

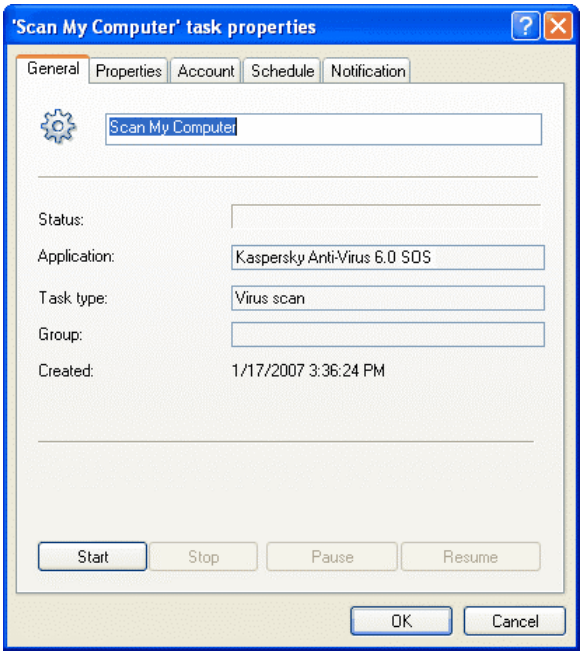


Figure 46. Configuring task settings

All the tabs except for the **Properties** tab are standard for Kaspersky Administration Kit 6.0. They are covered in greater depth in the Administrator User Guide. The **Properties** tab contains specific settings for Kaspersky Anti-

Virus 6.0 SOS. The contents of this tab vary depending on the task type selected.

Configuration of program task settings through the Kaspersky Administration Kit interface is similar to configuration through the local Kaspersky Anti-Virus 6.0 SOS interface, with the exception of the settings that are configured individually for each user, such as virus scan task scheduling. See Chapter 7 – Chapter 9 on pp. 56 – 74 of this user guide for a more in-depth description of configuration of task settings.

If a policy has been created for the application (see 13.3 on pg. 143) that blocks some settings from being reconfigured, they will not be editable when configuring tasks.

13.3. Managing policies

Setting up policies allows you to apply universal application and task settings to client computers that belong to a single network group.

This section includes information on creating and configuring policies for Kaspersky Anti-Virus 6.0 SOS. For more on the concept of managing tasks through Kaspersky Administration Kit 6.0, see the Administrator Guide for the program.

13.3.1. Creating policies

To create a policy for Kaspersky Anti-Virus 6.0 SOS, take the following steps:

1. In the **Groups** folder (see Figure 41), select the group of computers for which you need to create a policy.
2. Select **Policies** folder that belongs to the selected group, open the context menu, and use the **New→Policy** command. A Create New Policy window will appear.

Policies are created in a windows wizard and consists of a series of windows or steps that you can navigate between using the **Back** and **Next** buttons. You finish the wizard by pressing **Finish**. The **Cancel** button will stop the Wizard at any point.

During each step of creating a policy, the settings entered can be locked with the button. If the lock on the button is closed, in the future the values assigned by the policy created will be used when you use the policy on client computers.

Step 1. Entering general data on the policy

The first step of the wizard is introductory. In the first wizard window, you must specify the name of the policy (**Name** field). In the second, select **Kaspersky Anti-Virus 6.0 SOS** from the **Application name** dropdown menu. If you want the policy settings to take effect immediately after creating it, check **Make policy active**.

Step 2. Selecting a policy status

This window will ask you to specify the policy status. To do so, move the switch to the need position: active policy or inactive policy.

Several policies may be created in a group for one application, but only one of them can be the current (active) policy.

Step 3. Selecting and configuring application

In this stage, you can enable, disable and the configure application settings that will be used in the policy.

The application is enabled by default. To disable the application, deselect the **Protection** checkbox next to its name. To fine-tune the application, select **Protection** and click the **Configure** button.

Step 4. Configuring virus scan settings

In this step, you can configure the settings that will be used by virus scan tasks.

In the **Security level** section, select one of the preset security options (see 7.4.1 on pg. 60). Click the **Customize** button to fine-tune the level selected. To restore the **Recommended** settings, click the **Default** button.

In the **Action** section, specify the action that Anti-Virus should take when a dangerous object is detected (see 7.4.4 on pg. 64).

Step 5. Configuring update settings

In this window, configure settings for the Kaspersky Anti-Virus 6.0 SOS update distribution feature.

In the **Update settings** section, specify what is being updated (see 9.4.2 on pg. 80). In the window that opens when you click the **Configure** button, assign local network settings (see 9.4.3 on pg. 82) and specify the update source (see 9.4.1 on pg.77).

In the **Actions after update** section, enable/disable scanning of Quarantine after receiving a new update pack (see 9.4.4 on pg. 83).

Step 6. Enforcing the policy

In this step, select a method for policy enforcement on client computers of the group (for more details, see the Administrator Guide for Kaspersky Administration Kit 6.0).

Step 7. Finishing creating a policy

The final window of the wizard tells you that you have successfully created a policy.

Once the wizard is completed, the Kaspersky Anti-Virus policy will be added to the **Policies** folder (see Figure 41) for the corresponding group and will be visible in the results pane.

You can edit the settings of the policy created and set restrictions on modifying its settings using the button for each settings group. A user on the client computer will not be able to change settings if they are locked this way. The policy will be applied to client computers the first time the clients synchronize with the server.

You can copy or move policies from one group to another and to delete them using the standard commands **Copy**/**Paste**, **Cut**/**Paste**, and **Delete** from the context menu and the same commands from the Action menu.

13.3.2. Viewing and editing policy settings

At the editing stage, you can modify the policy and block modification to settings in nested group policies and in application and task settings.

To view and edit policy settings:

1. Select the computer group for which settings must be edited from the console tree in the **Groups** folder.
2. Select the **Policies** folder that belongs to that group (see Figure 41). When you do so, the results pane will display all the policies created for the group.
3. Select the policy you need from the list of policies for **Kaspersky Anti-Virus 6.0 SOS** (the application name is specified in the **Application** field).

4. Select the **Properties** command from the context menu for the selected policy. A policy settings window will open for Kaspersky Anti-Virus 6.0 SOS contain several tabs (see Figure 47).

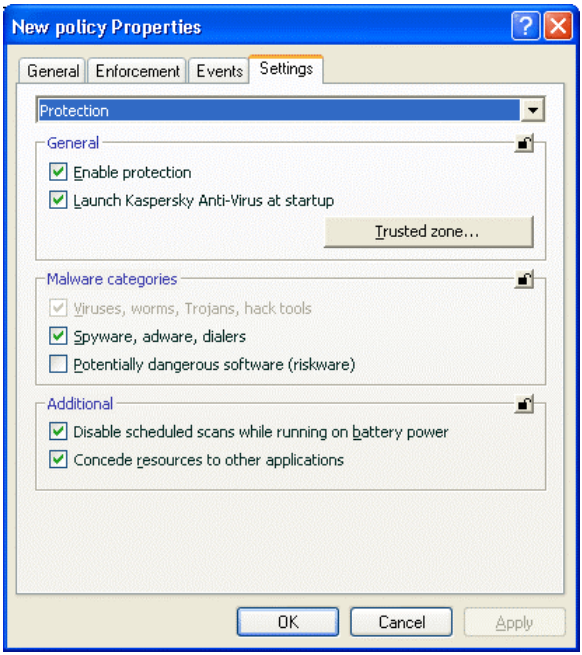


Figure 47. Configuring policy settings

All the tabs except for **Settings** are standard for Kaspersky Administration Kit (for more details, see the Administrator Guide for the program).

The **Settings** tab contains policy settings for Kaspersky Anti-Virus 6.0 SOS. Policy settings include program settings (see 13.1.2 on pg. 134) and task settings (see 13.2.3 on pg. 142).

To configure settings, select the needed value from the dropdown menu and configure the settings.

CHAPTER 14. FREQUENTLY ASKED QUESTIONS

This chapter is devoted to the most frequently asked questions from users pertaining to application installation, setup and operation; here we shall try to answer them here in detail.

Question: Is it possible to use Kaspersky Anti-Virus 6.0 SOS 6.0 with anti-virus products of other vendors?

Yes, it is. Kaspersky Anti-Virus 6.0 SOS does not conflict with third-party anti-virus products.

Question: Kaspersky Anti-Virus 6.0 SOS does not rescan files that have been scanned earlier. Why?

This is true. Kaspersky Anti-Virus 6.0 SOS does not rescan files that have not changed since the last scan.

That has become possible due to the new iChecker technology. The technology is implemented in the program using a database of file checksums.

Question: Why do I need the license key file? Will Kaspersky Anti-Virus 6.0 SOS work without it?

Kaspersky Anti-Virus 6.0 SOS will run without a license key, although you will not be able to access the Updater and Technical Support.

If you still have not decided whether to purchase Kaspersky Anti-Virus 6.0 SOS, we can provide you with a trial license that will work for either two weeks or a month. Once that time has elapsed, the key will expire.

Question: After the installation of Kaspersky Anti-Virus 6.0 SOS the operating system started "behaving" strangely ("blue screen of death", frequent restarting, etc.) What should I do?

Although rare, it is possible that Kaspersky Anti-Virus 6.0 SOS and other software installed on your computer will conflict.

In order to restore the functionality of your operating system do the following:

1. Press the **F8** key repeatedly between the time when the computer just started loading until the boot menu is displayed.
2. Select **Safe Mode** and load the operating system.
3. Open Kaspersky Anti-Virus 6.0 SOS.

4. Use the Settings link in the main window and select the **Protection** section in the program settings window.
5. Uncheck **Launch Kaspersky Anti-Virus 6.0 at startup** and click **OK**.
6. Reboot the operating system in regular mode.

After this contact the Technical Support Service through the Kaspersky Lab's corporate website (**Services→Technical Support)**. Describe in detail the problem and the circumstances in which this problem occurs.

Make sure that you attach to your question a file containing a complete dump of Microsoft Windows operating system. In order to create this file, do the following:

1. Right-click **My computer** and select the **Properties** item in the shortcut menu that will open.
2. Select the **Advanced** tab in the **System Properties** window and then press the **Settings** button in the **Startup and Recovery** section.
3. Select the **Complete memory dump** option from the drop-down list in the **Write debugging information** section of the **Startup and Recovery** window.

   By default, the dump file will be saved into the system folder as *memory.dmp*. You can change the dump storage folder by editing the folder name in the corresponding field.
4. Reproduce the problem related to the operation of Kaspersky Anti-Virus 6.0 SOS.
5. Make sure that the complete memory dump file was successfully saved.

APPENDIX A. REFERENCE INFORMATION

This appendix contains reference materials on the file formats and extension masks used in Kaspersky Anti-Virus 6.0 SOS settings, and information is also provided on settings in the file setup.ini, which is used when installing the program in hidden mode.

A.1. List of files scanned by extension

If you select **Scan programs and documents (by extension)**, the scan will analyze files with the extensions below in-depth for viruses.

com – executable file for a program

exe – executable file or self-extracting archive

sys – system driver

prg – program text for dBase, Clipper or Microsoft Visual FoxPro, or a WAVmaker program

bin – binary file

bat – batch file

cmd – command file for Microsoft Windows NT (similar to a .bat file for DOS), OS/2

dpl – compressed Borland Delphi library

dll – dynamic loading library

scr – Microsoft Windows splash screen

cpl – Microsoft Windows control panel module

ocx – Microsoft OLE (Object Linking and Embedding) object

tsp – program that runs in split-time mode

drv – device driver

vxd – Microsoft Windows virtual device driver

pif – program information file

lnk – Microsoft Windows link file

reg – Microsoft Windows system registry key file

ini – initialization file

cla – Java class

vbs – Visual Basic script

vbe – BIOS video extension

js, jse – JavaScript source text

htm – hypertext document

htt – Microsoft Windows hypertext header

hta – hypertext program for Microsoft Internet Explorer

asp – Active Server Pages script

chm – compiled HTML file

pht – HTML with built-in PHP scripts

php – script built into HTML files

wsh – Windows Script Host file

wsf – Microsoft Windows script

the – Microsoft Windows 95 desktop wallpaper

hlp – Win Help file

eml – Microsoft Outlook Express email file

nws – Microsoft Outlook Express new email file

msg – Microsoft Mail email file

plg – email

mbx – extension for saved Microsoft Office Outlook emails

*doc** – a Microsoft Word document, such as: *doc* – a Microsoft Word document, *docx* – a Microsoft Word 2007 document with XML suport, *docm* – a Microsoft Word 2007 document with Macro support

*dot** – a Microsoft Word document template, such as, *dot* – a Microsoft Word document template, *dotx* – a Microsoft Word 2007 document template , *dotm* – a Microsoft Word 2007 document template with Macro support

fpm – database program, start file for Microsoft Visual FoxPro

rtf – Rich Text Format document

shs – Shell Scrap Object Handler fragment

dwg – AutoCAD blueprint database

msi – Microsoft Windows Installer package

otm – VBA project for Microsoft Office Outlook

pdf – Adobe Acrobat document

swf – Shockwave Flash file

jpg, jpeg, png – compressed image graphics format

emf – Enhanced Metafile format Next generation of Microsoft Windows OS metafiles. EMF files are not supported by 16-bit Microsoft Windows

ico – icon file

ov? – *Microsoft DOC executable files*

*xl** – Microsoft Office Excel documents and files, such as: *xla* - Microsoft Office Excel extension, *xlc* - diagram, *xlt* - document templates. *xlsx* – a Microsoft Excel 2007 workbook , *xltm* – a Microsoft Excel 2007 workbook with Macro support , *xlsb* – a Microsoft Excel 2007 in binary (non-XML) format , *xltx* – a Microsoft Excel 2007 template , *xlsm* – a Microsoft Excel 2007 template with Macro support , *xlam* – a Microsoft Excel 2007 plugin with Macro support.

*pp** – Microsoft Office Excel documents and files, such as: *xla* - Microsoft Office Excel extension, *xlc* - diagram, *xlt* - document templates. *xlsx* – a Microsoft Excel 2007 workbook , *xltm* – a Microsoft Excel 2007 workbook with Macro support , *xlsb* – a Microsoft Excel 2007 in binary (non-XML) format , *xltx* – a Microsoft Excel 2007 template , *xlsm* – a Microsoft Excel 2007 template with Macro support , *xlam* – a Microsoft Excel 2007 plugin with Macro support

*md** – Microsoft Office Access documents and files, such as: *mda* – Microsoft Office Access work group, mdb – database, etc.

sldx – a Microsoft PowerPoint 2007 slide.

sldm – a Microsoft PowerPoint 2007 slide with Macro support.

thmx – a Microsoft Office 2007 theme.

Remember that the actual format of a file may not correspond with the format indicated in the file extension.

A.2. Valid file exclusion masks

Let's look at some examples of possible masks that you can use when creating file exclusion lists:

- Masks without file paths:
  - ***.exe** – all files with the extension *.exe*
  - ***.ex?** – all files with the extension *.ex?,* where ? can represent any one character
  - **test** – all files with the name *test*
- Masks with absolute file paths:
  - **C:\dir*.*** or **C:\dir*** or **C:\dir** – all files in folder *C:\dir*
  - **C:\dir*.exe** – all files with extension .exe in folder *C:\dir*

- **C:\dir*.ex?** – all files with extension .ex? in folder *C:\dir*, where ? can represent any one character
- **C:\dir\test** – only the file *C:\dir\test*
- If you do not want the program to scan files in the subfolders of this folder, uncheck **Include subfolders** when creating the mask.

- Masks with relative file paths:
  - **dir*.*** or **dir*** or **dir** – all files in all *dir* folders
  - **dir\test** – all *test* files in *dir\ folders*
  - **dir*.exe** – all files with the extension *.exe* in all *dir\ folders*
  - **dir*.ex?** – all files with the extension .ex? in all *C:\dir* folders, where ? can represent any one character
  - If you do not want the program to scan files in the subfolders of this folder, uncheck **Include subfolders** when creating the mask.

Tip:
. and * exclusion masks can only be used if you assign a verdict excluded according to the Virus Encyclopedia. Otherwise the threat specified will not be detected in any objects. Using these masks without selecting a verdict essentially disables monitoring.
We also do not recommend that you select a virtual drive created on the basis of a file system directory using the *subst* command as an exclusion. There is no point in doing so, since during the scan, the program perceives this virtual drive as a folder and consequently scans it.

A.3. Valid threat exclusion masks

When adding threats with a certain verdict from the Virus Encyclopedia classification as exclusions, you can specify:

- the full name of the threat as given in the Virus Encyclopedia at www.viruslist.com (for example, **not-a-virus:RiskWare.RemoteAdmin.RA.311** or **Flooder.Win32.Fuxx**);
- threat name by mask. For example:
  - **not-a-virus*** – excludes potential dangerous programs from the scan, as well as joke programs.
  - ***Riskware.*** – excludes riskware from the scan.

- ***RemoteAdmin.*** – excludes all remote administration programs from the scan.

A.4. Overview of settings in setup.ini

The file *setup.ini*, located in the Kaspersky Anti-Virus installation folder, is used when installing the program in noninteractive mode from the command prompt (see 3.3 on pg. 33) or using Group Policy Object Editor (see 3.4 on pg. 33). The file contains the following settings :

[Setup] – general settings for program installation.

InstallDir=<path to program installation folder>.

Reboot=yes|no – whether the computer should restart after the program is installed (does not restart by default).

[Tasks] – enables Kaspersky Anti-Virus tasks If no tasks are specified, all tasks will run after installation. If any tasks are specified, all tasks that are not listed will be disabled.

ScanMyComputer=yes|no – task for complete scan of computer

ScanStartup=yes|no – task for scanning startup objects

ScanCritical=yes|no – task for scanning critical areas

Updater=yes|no – task for updating threat signatures and program modules

Instead of the value **yes**, you can use the values **1**, **on**, **enable**, or **enabled**, and instead of **no** you can use – **0**, **off**, **disable**, or **disabled** .

APPENDIX B. KASPERSKY LAB

Founded in 1997, Kaspersky Lab has become a recognized leader in information security technologies. It produces a wide range of data security software and delivers high-performance, comprehensive solutions to protect computers and networks against all types of malicious programs, unsolicited and unwanted e-mail messages, and hacker attacks.

Kaspersky Lab is an international company. Headquartered in the Russian Federation, the company has representative offices in the United Kingdom, France, Germany, Japan, USA (CA), the Benelux countries, China, Poland, and Romania. A new company department, the European Anti-Virus Research Centre, has recently been established in France. Kaspersky Lab's partner network incorporates more than 500 companies worldwide.

Today, Kaspersky Lab employs more than 450 specialists, each of whom is proficient in anti-virus technologies, with 10 of them holding M.B.A. degrees, 16 holding Ph.Ds, and senior experts holding membership in the Computer Anti-Virus Researchers Organization (CARO).

Kaspersky Lab offers best-of-breed security solutions, based on its unique experience and knowledge, gained in over 14 years of fighting computer viruses. A thorough analysis of computer virus activities enables the company to deliver comprehensive protection from current and future threats. Resistance to future attacks is the basic policy implemented in all Kaspersky Lab's products. The company’s products consistently remain at least one step ahead of many other vendors in delivering extensive anti-virus coverage for home users and corporate customers alike.

Years of hard work have made the company one of the top security software manufacturers. Kaspersky Lab was one of the first businesses of its kind to develop the highest standards for anti-virus defense. The company’s flagship product, Kaspersky Anti-Virus, provides full-scale protection for all tiers of a network, including workstations, file servers, mail systems, firewalls, Internet gateways, and hand-held computers. Its convenient and easy-to-use management tools ensure advanced automation for rapid virus protection across an enterprise. Many well-known manufacturers use the Kaspersky Anti-Virus kernel, including Nokia ICG (USA), F-Secure (Finland), Aladdin (Israel), Sybari (USA), G Data (Germany), Deerfield (USA), Alt-N (USA), Microworld (India) and BorderWare (Canada).

Kaspersky Lab's customers benefit from a wide range of additional services that ensure both stable operation of the company's products, and compliance with specific business requirements. Our databases are updated every hour. The company provides its customers with a 24-hour technical support service, which is available in several languages to accommodate its international clientele.

B.1. Other Kaspersky Lab Products

Kaspersky Lab News Agent

The News Agent is intended for timely delivery of news published by Kaspersky Lab, notifications about the current status of virus activity, and fresh news. The program reads the list of available news feeds and their content from the Kaspersky Lab news server at specified intervals.

News Agent enables users to;

- See the current virus forecast .in the system tray
- Subscribe to and unsubscribe from news feeds
- Retrieve news from each selected feed at the specified interval and receive notifications about fresh news
- Review news on the selected feeds
- Review the list of feeds and their status
- Open full article text in your browser

News Agent is a stand-alone Microsoft Windows application that can be used independently or may be bundled with various integrated solutions offered by Kaspersky Lab Ltd.

Kaspersky® OnLine Scanner

This program is a free service provided to the visitors of Kaspersky Lab's corporate website. The service delivers an efficient online anti-virus scan of your computer. Kaspersky OnLine Scanner runs directly from your browser. This way, users receive quick responses to questions regarding potential infectionson their computers. Using the service, visitors can:

- Exclude archives and e-mail databases from scanning
- Select standard/extended databases for scanning
- Save a report on the scanning results in .txt or .html formats

Kaspersky® OnLine Scanner Pro

The program is a subscription service available to the visitors of Kaspersky Lab's corporate website. The service delivers an efficient online anti-virus scan of your computer and disinfects dangerous files. Kaspersky OnLine Scanner Pro runs directly from your browser. Using the service, visitors can:

- Exclude archives and e-mail databases from scanning
- Select standard/extended databases for scanning
- Save a report on the scanning results in .txt or .html formats

Kaspersky Anti-Virus® 7.0

Kaspersky Anti-Virus 7.0 is designed to safeguard personal computers against malicious software as an optimal combination of conventional methods of anti-virus protection and new proactive technologies.

The program provides for complex anti-virus checks, including:

- Anti-virus scanning of e-mail traffic on the level of data transmission protocol (POP3, IMAP and NNTP for incoming mail and SMTP for outgoing messages), regardless of the mail client being used, as well as disinfection of e-mail databases.
- Real-time anti-virus scanning of Internet traffic transferred via HTTP.
- Anti-virus scanning of individual files, folders, or drives. In addition, a preset scan task can be used to initiate anti-virus analysis exclusively for critical areas of the operating system and start-up objects of Microsoft Windows.

Proactive protection offers the following features:

- **Controls modifications within the file system**. The program allows users to create a list of applications, which it will control on a per component basis. It helps protect application integrity against the influence of malicious software.
- **Monitors processes in random-access memory**. Kaspersky Anti-Virus 7.0 in a timely manner notifies users whenever it detects dangerous, suspicious or hidden processes or in case when unauthorized changes in active processes occur.
- **Monitors changes in OS registry** due to internal system registry control.
- **Hidden Processes Monitor** helps protect from malicious code concealed in the operating system using rootkit technologies.
- **Heuristic Analyzer**. When scanning a program, the analyzer emulates its execution and logs all suspicious activity, such as, opening or writing to a file, interrupt vector intercepts, etc. A decision is made based on this procedure regarding possible infection of the program with a virus. Emulation occurs in an isolated virtual environment which reliably protects the computer of infection.
- **Performs system restore** after malware attacks by logging all changes to the registry and computer file system and rolls them back at user's discretion.

Kaspersky® Internet Security 7.0

Kaspersky Internet Security 7.0 is an integrated solution for protection of personal computers against the major information- threats (viruses, hackers,

spam and spyware). A single interface enables fusers to configure and manage all the program's components.

The anti-virus protection features include:

- **Anti-virus scanning of e-mail traffic** on the level of data transmission protocol (POP3, IMAP and NNTP for incoming mail and SMTP for outgoing messages), regardless of the mail client being used. The program includes plug-ins for popular e-mail clients (such as Microsoft Office Outlook, Microsoft Outlook Express/Windows Mail, and The Bat!) and supports disinfection of their e-mail databases.
- **Real-time anti-virus scanning of Internet traffic** transferred via HTTP.
- **File system protection**: anti-virus scanning of individual files, folders or drives. In addition, the application can perform anti-virus analysis exclusively for critical areas of the operating system and Microsoft Windows start-up objects.
- **Proactive protection**: the program constantly monitors application activity and processes running in random-access memory, preventing dangerous changes to the file system and registry, and restores the system after malicious influence.

Protection against Internet-fraud is ensured by recognition of phishing attacks, thereby preventing confidential data leaks (above all passwords, bank account and credit card numbers) and blocking execution of dangerous scripts on web pages, pop-up windows and advertisement banners. The **autodialer blocking** feature helps identify software that attempts to use your modem for hidden unauthorized connections to paid phone services and blocks such activity. *Privacy Control* module keeps your confidential information secure from unauthorized access and transmission. *Parental Control* is a Kaspersky Internet Security component that monitors user access to the Internet.

Kaspersky Internet Security 7.0 **registers attempts to scan the ports of your computer**, which frequently precede network attacks, and successfully defends against typical network attacks. The program uses **defined rules as a basis** for control over all network transactions tracking all **incoming and outgoing data packets**. **Stealth Mode** (owing to the SmartStealth™ technology) **prevents computer detection from outside**. When you switch to Stealth Mode, the system blocks all network activity except for a few transactions allowed in user-defined rules.

The program employs an all-inclusive approach to anti-spam filtering of incoming e-mail messages:

- Verification against black and white lists of recipients (including addresses of phishing sites)
- Inspection of phrases in message body
- Analysis of message text using a learning algorithm

- Recognition of spam sent in image files

Kaspersky Anti-Virus Mobile

Kaspersky® Anti-Virus Mobile provides antivirus protection for mobile devices running Symbian OS and Microsoft Windows Mobile. The program provides comprehensive virus scanning, including:

- **On-demand scans** of the mobile device's onboard memory, memory cards, an individual folder, or a specific file; if an infected file is detected, it is moved to Quarantine or deleted
- **Real-time scanning –** all incoming and outgoing files are automatically scanned, as well as files when attempts are made to access them
- **Protection from text message spam**

Kaspersky Anti-Virus for File Servers

This software package provides reliable protection for file systems on servers running Microsoft Windows, Novell NetWare, Linux and Samba from all types of malware. The suite includes the following Kaspersky Lab applications:

- Kaspersky Administration Kit.
- Kaspersky Anti-Virus for Windows Server.
- Kaspersky Anti-Virus for Linux File Server.
- Kaspersky Anti-Virus for Novell Netware.
- Kaspersky Anti-Virus for Samba Server.

Features and functionality:

- *Protects server file systems in real time*: All server files are scanned when opened or saved on the server
- *Prevents virus outbreaks*;
- *On-demand scans* of the entire file system or individual files and folders;
- *Use of optimization technologies* when scanning objects in the server file system;
- *System rollback after virus attacks*;
- *Scalability of the software package* within the scope of system resources available;
- *Monitoring of the system load balance*;

- *Creating a list of trusted processes* whose activity on the server is not subject to control by the software package;
- *Remote administration* of the software package, including centralized installation, configuration, and administration;
- *Saving backup copies of infected and deleted objects* in case you need to restore them;
- *Quarantining suspicious objects*;
- *Send notifications on events* in program operation to the system administrator;
- *Log detailed reports*;
- *Automatically update* program databases.

Kaspersky Open Space Security

Kaspersky Open Space Security is a software package withal new approach to security for today's corporate networks of any size, providing centralized protection information systems and support for remote offices and mobile users.

The suite includes four programs:

- Kaspersky Work Space Security
- Kaspersky Business Space Security
- Kaspersky Enterprise Space Security
- Kaspersky Total Space Security

Specifics on each program are given below.

Kaspersky WorkSpace Security is a program for centralized protection of workstations inside and outside of corporate networks from all of today's Internet threats (viruses, spyware, hacker attacks, and spam).

Features and functionality:

- *Comprehensive protection from viruses, spyware, hacker attacks, and spam*;
- *Proactive Defense* from new malicious programs whose signatures are not yet added to the database;
- *Personal Firewall* with intrusion detection system and network attack warnings;
- *Rollback for malicious system modifications*;
- *Protection from phishing attacks and junk mail*;

- *Dynamic resource redistribution* during complete system scans;
- *Remote administration* of the software package, including centralized installation, configuration, and administration;
- *Support for Cisco® NAC* (Network Admission Control);
- *Scanning of e-mail and Internet traffic* in real time;
- *Blocking of popup windows and banner ads* when on the Internet;
- *Secure operation in any type of network*, including Wi-Fi;
- *Rescue disk creation tools* that enable you to restore your system after a virus outbreak;
- *An extensive reporting system* on protection status;
- *Automatic database updates*;
- *Full support for 64-bit operating systems*;
- *Optimization of program performance on laptops* (Intel® Centrino® Duo technology);
- *Remote disinfection capability* (Intel® Active Management, Intel® vPro™).

Kaspersky Business Space Security provides optimal protection of your company's information resources from today's Internet threats. Kaspersky Business Space Security protects workstations and file servers from all types of viruses, Trojans, and worms, prevents virus outbreaks, and secures information while providing instant access to network resources for users.

Features and functionality:

- Remote administration of the software package, including centralized installation, configuration, and administration;
- *Support for Cisco® NAC* (Network Admission Control);
- *Protection of workstations and file servers from all types of Internet threats*;
- *iSwift technology to avoid rescanning files within the network*;
- *Distribution of load among server processors*;
- *Quarantining suspicious objects* from workstations;
- *Rollback for malicious system modifications*;

- *scalability of the software package within the* scope of system resources available;
- *Proactive Defense* for workstations from new malicious programs whose signatures are not yet added to the database;
- *Scanning of e-mail and Internet traffic* in real time;
- *Personal Firewall* with intrusion detection system and network attack warnings;
- *Protection while using* Wi-Fi networks;
- *Self-Defense from malicious programs*;
- *Quarantining* suspicious objects;
- *automatic database updates*.

Kaspersky Enterprise Space Security

This program includes components for protecting linked workstations and servers from all today's Internet threats. It deletes viruses from e-mail, keeping information safe while providing secure access to network resources for users.

Features and functionality:

- *Protection of workstations and file servers from viruses, Trojans, and worms*;
- *Protection of Sendmail, Qmail, Postfix and Exim mail servers*;
- *Scanning of all e-mails on Microsoft Exchange Server*, including shared folders;
- *Processing of e-mails, databases, and other objects for Lotus Domino servers*;
- *Protection from phishing attacks and junk mail*;
- *preventing mass mailings and virus outbreaks*;
- scalability of the software package within the scope of system resources available ;
- Remote administration of the software package, including centralized installation, configuration, and administration;
- Support for Cisco ® NAC (Network Admission Control);
- Proactive Defense for workstations from new malicious programs whose signatures are not yet added to the database ;

- Personal Firewall with intrusion detection system and network attack warnings ;
- *Secure operation while using* Wi-Fi networks;
- *Scans Internet traffic* in real time;
- *Rollback for malicious system modifications*;
- *Dynamic resource redistribution* during complete system scans;
- Quarantining suspicious objects ;
- *An extensive reporting system* on protection system status;
- *automatic database updates*.

Kaspersky Total Space Security

This solution monitors all inbound and outbound data streams (e-mail, Internet, and all network interactions). It includes components for protecting workstations and mobile devices, keeps information safe while providing secure access for users to the company's information resources and the Internet, and ensures secure e-mail communications.

Features and functionality:

- *Comprehensive protection from viruses, spyware, hacker attacks, and spam* on all levels of the corporate network, from workstations to Internet gateways;
- Proactive Defense for workstations from new malicious programs whose signatures are not yet added to the database ;
- *Protection of mail servers and linked servers*;
- *Scans Internet traffic* (HTTP/FTP) entering the local area network in real time;
- scalability of the software package within the scope of system resources available ;
- *Blocking access from infected workstations*;
- *Prevents virus outbreaks*;
- *Centralized reporting on protection status*;
- Remote administration of the software package, including centralized installation, configuration, and administration;
- *Support for Cisco® NAC* (Network Admission Control);
- *Support for hardware proxy servers*;

- *Filters Internet traffic* using a trusted server list, object types, and user groups;
- *iSwift technology to avoid rescanning files within* the network ;
- Dynamic resource redistribution during complete system scans;
- Personal Firewall with intrusion detection system and network attack warnings ;
- *Secure operation for users on any type of network*, including Wi-Fi;
- *Protection from phishing attacks and junk mail*;
- *Remote disinfection capability* (Intel® Active Management, Intel® vPro™);
- *Rollback for malicious system modifications*;
- *Self-Defense from malicious programs*;
- *full support for 64-bit operating systems*;
- *automatic database updates*.

Kaspersky Security for Mail Servers

This program is for protecting mail servers and linked servers from malicious programs and spam. The program includes application for protecting all standard mail servers (Microsoft Exchange, Lotus Notes/Domino, Sendmail, Qmail, Postfix and Exim) and also enables you to configure a dedicated e-mail gateway. The solution includes:

- Kaspersky Administration Kit.
- Kaspersky Mail Gateway.
- Kaspersky Anti-Virus for Lotus Notes/Domino.
- Kaspersky Anti-Virus for Microsoft Exchange.
- Kaspersky Anti-Virus for Linux Mail Server.

Its features include:

- *Reliable protection from malicious or potentially dangerous programs*;
- *Junk mail filtering*;
- *Scans incoming and outgoing e-mails and attachments*;

- *Scans all e-mails on* Microsoft Exchange Server for viruses, including shared folders;
- *Processes e-mails, databases, and other objects for Lotus Notes/Domino servers*;
- *Filters* e-mails by attachment type;
- *Quarantines* suspicious objects;
- *Easy-to-use administration system for* the program;
- *Prevents virus outbreaks*;
- *Monitors protection system status* using notifications;
- *Reporting system* for program operation;
- scalability of the software package within the scope of system resources available ;
- *automatic database updates*.

Kaspersky Security for Internet Gateways

This program provides secure access to the Internet for all an organization's employees, automatically deleting malware and riskware from the data incoming on HTTP/FTP. The solution includes:

- Kaspersky Administration Kit.
- Kaspersky Anti-Virus for Proxy Server.
- Kaspersky Anti-Virus for Microsoft ISA Server.
- Kaspersky Anti-Virus for Check Point FireWall-1.

Its features include:

- *Reliable protection from malicious or potentially dangerous programs*;
- *Scans Internet traffic* (HTTP/FTP) in real time;
- *Filters Internet traffic* using a trusted server list, object types, and user groups;
- *Quarantines* suspicious objects;
- *Easy-to-use administration system*;
- *Reporting system for program operation*;
- *Support for hardware proxy servers*;

- Scalability of the software package within the scope of system resources available ;
- *Automatic database updates*.

Kaspersky® Anti-Spam

Kaspersky® Anti-Spam is a cutting-edge software suite designed to help organizations with small- and medium-sized networks wage war against the onslaught of unsolicited e-mail messages (spam). The product combines the revolutionary technology of linguistic analysis with modern methods of e-mail filtration, including DNS Black Lists and formal letter features. Its unique combination of services allows users to identify and wipe out up to 95% of unwanted traffic.

Installed at the entrance to a network, where it monitors incoming e-mail traffic streams for spam, Kaspersky® Anti-Spam acts as a barrier to unsolicited e-mail. The product is compatible with any mail system and can be installed on either an existing mail server or a dedicated one.

Kaspersky® Anti-Spam's high performance is ensured by daily updates to the content filtration database, adding samples provided by the Company's linguistic laboratory specialists. Databases are updated every 20 minutes.

Kaspersky Anti-Virus® for MIMESweeper

Kaspersky Anti-Virus® for MIMESweeper provides high-speed scanning of traffic on servers running Clearswift MIMEsweeper for SMTP / Clearswift MIMEsweeper for Exchange / Clearswift MIMEsweeper for Web.

The program is a plug-in and scans for viruses and processes inbound and outbound e-mail traffic in real time.

B.2. Contact Us

If you have any questions, comments, or suggestions, please refer them to one of our distributors or directly to Kaspersky Lab. We will be glad to assist you in any matters related to our product by phone or via e-mail. Rest assured that all of your recommendations and suggestions will be thoroughly reviewed and considered.

Technical support	Please find the technical support information at http://www.kaspersky.com/supportinter.html Helpdesk: www.kaspersky.com/helpdesk.html
General information	WWW: http://www.kaspersky.com http://www.viruslist.com E-mail: info@kaspersky.com

APPENDIX C. LICENSE AGREEMENT

NOTICE TO ALL USERS: CAREFULLY READ THE FOLLOWING LEGAL AGREEMENT ("AGREEMENT"), FOR THE LICENSE OF KASPERSKY **Kaspersky Anti-Virus Second Opinion Solution** ("SOFTWARE") PRODUCED BY KASPERSKY LAB ("KASPERSKY LAB").

IF THIS SOFTWARE WAS NOT PACKED IN A SLEEVE AND WAS PURCHASED IN ELECTRONIC FORMAT, BY CLICKING THE ACCEPT BUTTON, YOU (EITHER AN INDIVIDUAL OR A SINGLE ENTITY) CONSENT TO BE BOUND BY AND BECOME A PARTY TO THIS AGREEMENT. IF YOU DO NOT AGREE TO ALL OF THE TERMS OF THIS AGREEMENT, CLICK THE BUTTON THAT INDICATES THAT YOU DO NOT ACCEPT THE TERMS OF THIS AGREEMENT AND DO NOT INSTALL THE SOFTWARE.

IF THIS SOFTWARE WAS PURCHASED IN A PHYSICAL MEDIUM AND HAS BEEN PACKED IN THE SLEEVE, HAVING BROKEN THE CD'S SLEEVE YOU (EITHER AN INDIVIDUAL OR A SINGLE ENTITY) ARE CONSENTING TO BE BOUND BY THIS AGREEMENT. IF YOU DO NOT AGREE TO ALL OF THE TERMS OF THIS AGREEMENT DO NOT BREAK THE CD's SLEEVE, DOWNLOAD, INSTALL OR USE THIS SOFTWARE.

IN ACCORDANCE WITH THE LEGISLATION, REGARDING KASPERSKY SOFTWARE INTENDED FOR INDIVIDUAL CONSUMERS PURCHASED ONLINE FROM THE KASPERSKY LAB OR ITS PARTNER'S INTERNET WEB SITE, CUSTOMER SHALL HAVE A PERIOD OF FOURTEEN (14) WORKING DAYS AS FROM THE DELIVERY OF PRODUCT TO MAKE RETURN OF IT TO THE MERCHANT FOR EXCHANGE OR REFUND, PROVIDED THE SOFTWARE IS NOT UNSEALED.

REGARDING THE KASPERSKY SOFTWARE INTENDED FOR INDIVIDUAL CONSUMERS NOT PURCHASED ONLINE VIA INTERNET, THIS SOFTWARE NEITHER WILL BE RETURNED NOR EXCHANGED EXCEPT FOR CONTRARY PROVISIONS FROM THE PARTNER WHO SELLS THE PRODUCT. IN THIS CASE, KASPERSKY LAB WILL NOT BE HELD BY THE PARTNER'S CLAUSES.

THE RIGHT TO RETURN AND REFUND EXTENDS ONLY TO THE ORIGINAL PURCHASER.

1. *License Grant*. Subject to the payment of the applicable license fees, and subject to the terms and CONDITIONS of this Agreement, Kaspersky Lab hereby grants you the non-exclusive, non-transferable right to use one copy of the specified version of the Software and the accompanying

documentation (the “Documentation”) for the term of this Agreement solely for your own internal business purposes.

1.1 Use. The number of computers that User may protect by the Software is specified in the License Key File and indicated in the “Service” window. The Software may not be used to protect any networks with more than this number of computers. The Software is an additional antivirus application, which does not provide real-time protection of a computer. The Software is not intended to be used as the only means of antivirus protection on a computer.

1.1.1 The Software is “in use” on a computer when it is loaded into the temporary memory (i.e., random-access memory or RAM) or installed into the permanent memory (e.g., hard disk, CD-ROM, or other storage device) of that computer. This license authorizes you to make only as many back-up copies of the Software as are necessary for its lawful use and solely for back-up purposes, provided that all such copies contain all of the Software’s proprietary notices. You shall maintain records of the number and location of all copies of the Software and Documentation and will take all reasonable precautions to protect the Software from unauthorized copying or use.

1.1.2 The Software protects computer against viruses whose signatures are contained in the threat signatures databases which are available on Kaspersky Lab's update servers.

1.1.3 If you sell the computer on which the Software is installed, you will ensure that all copies of the Software have been previously deleted.

1.1.4 You shall not decompile, reverse engineer, disassemble or otherwise reduce any part of this Software to a humanly readable form nor permit any third party to do so. The interface information necessary to achieve interoperability of the Software with independently created computer programs will be provided by Kaspersky Lab by request on payment of its reasonable costs and expenses for procuring and supplying such information. In the event that Kaspersky Lab notifies you that it does not intend to make such information available for any reason, including (without limitation) costs, you shall be permitted to take such steps to achieve

interoperability, provided that you only reverse engineer or decompile the Software to the extent permitted by law.

1.1.5 You shall not make error corrections to, or otherwise modify, adapt, or translate the Software, nor create derivative works of the Software, nor permit any third party to copy (other than as expressly permitted herein).

1.1.6 You shall not rent, lease or lend the Software to any other person, nor transfer or sub-license your license rights to any other person.

1.1.7 You shall not use this Software in automatic, semi-automatic or manual tools designed to create virus signatures, virus detection routines, any other data or code for detecting malicious code or data.

1.1.8 Kaspersky Lab may ask User to install the latest version of the Software (the latest version and the latest maintenance pack).

1.1.9 Removal of Potentially Harmful Products. You acknowledge and agree that, in addition to detecting harmful and malicious software, the Product may also identify, remove and/or disable potentially harmful products, including those that are regarded or classified as Adware, Riskware, Pornware etc.

2. *Support*[1].

(i) Kaspersky Lab will provide you with the support services ("Support Services") as defined below for a period, specified in the License Key File and indicated in the "Service" window, since the moment of purchasing on:

(a) payment of its then current support charge, and:

(b) Kaspersky Lab's technical support service is also entitled to demand from the End User additional registration for identifier awarding for Support Services rendering.

(c) Until Software activation and/or obtaining of the End User identifier (Customer ID) technical support service renders assistance in Software activation and registration of the End User only.

(ii) By completion of the Support Services Subscription Form you consent to the terms of the Kaspersky Lab Privacy Policy,

which is deposited on www.kaspersky.com/privacy, and you explicitly consent to the transfer of data to other countries outside your own as set out in the Privacy Policy.

(iii) Support Services will terminate unless renewed annually by payment of the then-current annual support charge and by successful completion of the Support Services Subscription Form again.

(iv) "Support Services" means:

(a) Hourly updates of the anti-virus database;

(b) Free software updates, including version upgrades;

(c) Technical support via Internet and hot phone-line provided by Vendor and/or Reseller;

(d) Virus detection and disinfection updates in 24-hours period

(v) Support Services are provided only if and when you have the latest version of the Software (including maintenance packs) as available on the official Kaspersky Lab website (www.kaspersky.com) installed on your computer.

3. *Ownership Rights*. The Software is protected by copyright laws. Kaspersky Lab and its suppliers own and retain all rights, titles and interests in and to the Software, including all copyrights, patents, trademarks and other intellectual property rights therein. Your possession, installation, or use of the Software does not transfer any title to the intellectual property in the Software to you, and you will not acquire any rights to the Software except as expressly set forth in this Agreement.

4. Confidentiality. You agree that the Software and **the** Documentation, including the specific design and structure of individual programs constitute confidential proprietary information of Kaspersky Lab. You shall not disclose, provide, or otherwise make available such confidential information in any form to any third party without the prior written consent of Kaspersky Lab. You shall implement reasonable security measures to protect such confidential information, but without limitation to the foregoing shall use best endeavours to maintain the security of the activation code.

5. Limited Warranty.

(i) Kaspersky Lab warrants that for six (6) months from first download or installation the Software purchased on a physical medium will perform substantially in accordance with the functionality described in the Documentation when operated properly and in the manner specified in the Documentation.

(ii) You accept all responsibility for the selection of this Software to meet your requirements. Kaspersky Lab does not warrant that the Software and/or the Documentation will be suitable for such requirements nor that any use will be uninterrupted or error free.

(iii) Kaspersky Lab does not warrant that this Software identifies all known viruses, nor that the Software will not occasionally erroneously report a virus in a title not infected by that virus.

(iv) Kaspersky Lab does not warrant that this Software provides protection after expiring date (see section.2 (i)).

(v) Your sole remedy and the entire liability of Kaspersky Lab for breach of the warranty at paragraph (i) will be at Kaspersky Lab option, to repair, replace or refund of the Software if reported to Kaspersky Lab or its designee during the warranty period. You shall provide all information as may be reasonably necessary to assist the Supplier in resolving the defective item.

(vi) The warranty in (i) shall not apply if you (a) make or cause to be made any modifications to this Software without the consent of Kaspersky Lab, (b) use the Software in a manner for which it was not intended, or (c) use the Software other than as permitted under this Agreement.

(vii) The warranties and conditions stated in this Agreement are in lieu of all other conditions, warranties or other terms concerning the supply or purported supply of, failure to supply or delay in supplying the Software or the Documentation which might but for this paragraph (vi) have effect between the Kaspersky Lab and your or would otherwise be implied into or incorporated into this Agreement or any collateral contract, whether by statute, common law or otherwise, all of which are hereby excluded (including, without limitation, the implied conditions, warranties or other terms as to satisfactory quality, fitness for purpose or as to the use of reasonable skill and care).

6. Limitation *of* Liability.

(i) Nothing in this Agreement shall exclude or limit Kaspersky Lab's liability for (a) the tort of deceit, (b) death or personal injury caused by its breach of a common law duty of care or any negligent breach of a term of this Agreement, or (c) any other liability which cannot be excluded by law.

(ii) Subject to paragraph (i) above, Kaspersky Lab shall bear no liability (whether in contract, tort, restitution or otherwise) for

any of the following losses or damage (whether such losses or damage were foreseen, foreseeable, known or otherwise):

(a)Loss of revenue;

(b)Loss of actual or anticipated profits (including for loss of profits on contracts);

(c)Loss of the use of money;

(d)Loss of anticipated savings;

(e)Loss of business;

(f)Loss of opportunity;

(g)Loss of goodwill;

(h)Loss of reputation;

(i)Loss of, damage to or corruption of data, or:

(j) Any indirect or consequential loss or damage howsoever caused (including, for the avoidance of doubt, where such loss or damage is of the type specified in paragraphs (ii), (a) to (ii), (i).

(iii) Subject to paragraph (i), the liability of Kaspersky Lab (whether in contract, tort, restitution or otherwise) arising out of or in connection with the supply of the Software shall in no circumstances exceed a sum equal to the amount equally paid by you for the Software.

7. This Agreement contains the entire understanding between the parties with respect to the subject matter hereof and supersedes all and any prior understandings, undertakings and promises between you and Kaspersky Lab, whether oral or in writing, which have been given or may be implied from anything written or said in negotiations between us or our representatives prior to this Agreement and all prior agreements between the parties relating to the matters aforesaid shall cease to have effect as from the Effective Date.

[1] – When using demo software, you are not entitled to the Technical Support specified in Clause 2 of this EULA, nor do you have the right to sell the copy in your possession to other parties.
You are entitled to use the software for demo purposes for the period of time specified in the license key file starting from the moment of activation (this period can be viewed in the Service window of the software's GUI).